

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P534266

Luminaire Tested: **GALN-SA9D-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534266  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-730-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 54033 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

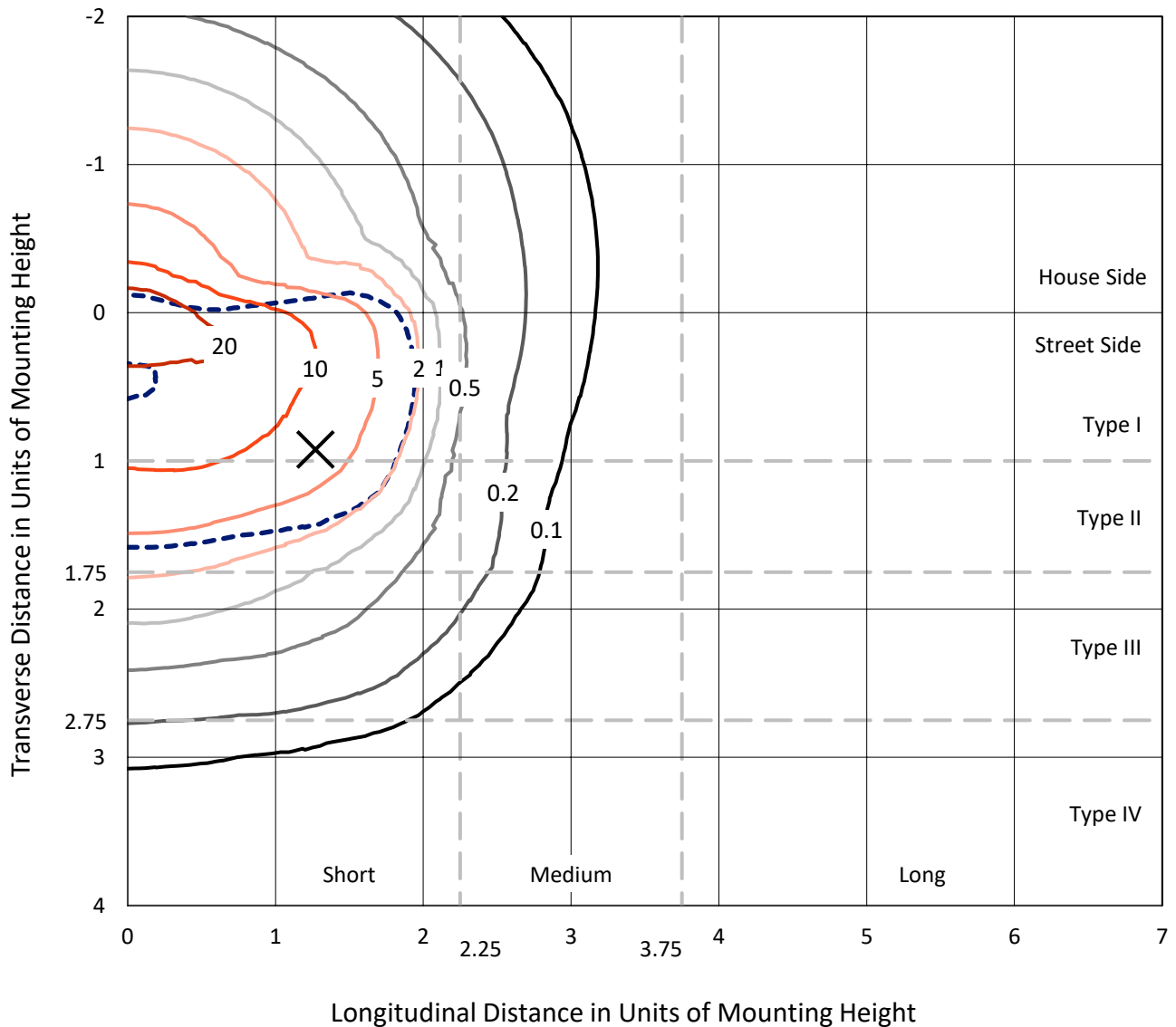
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

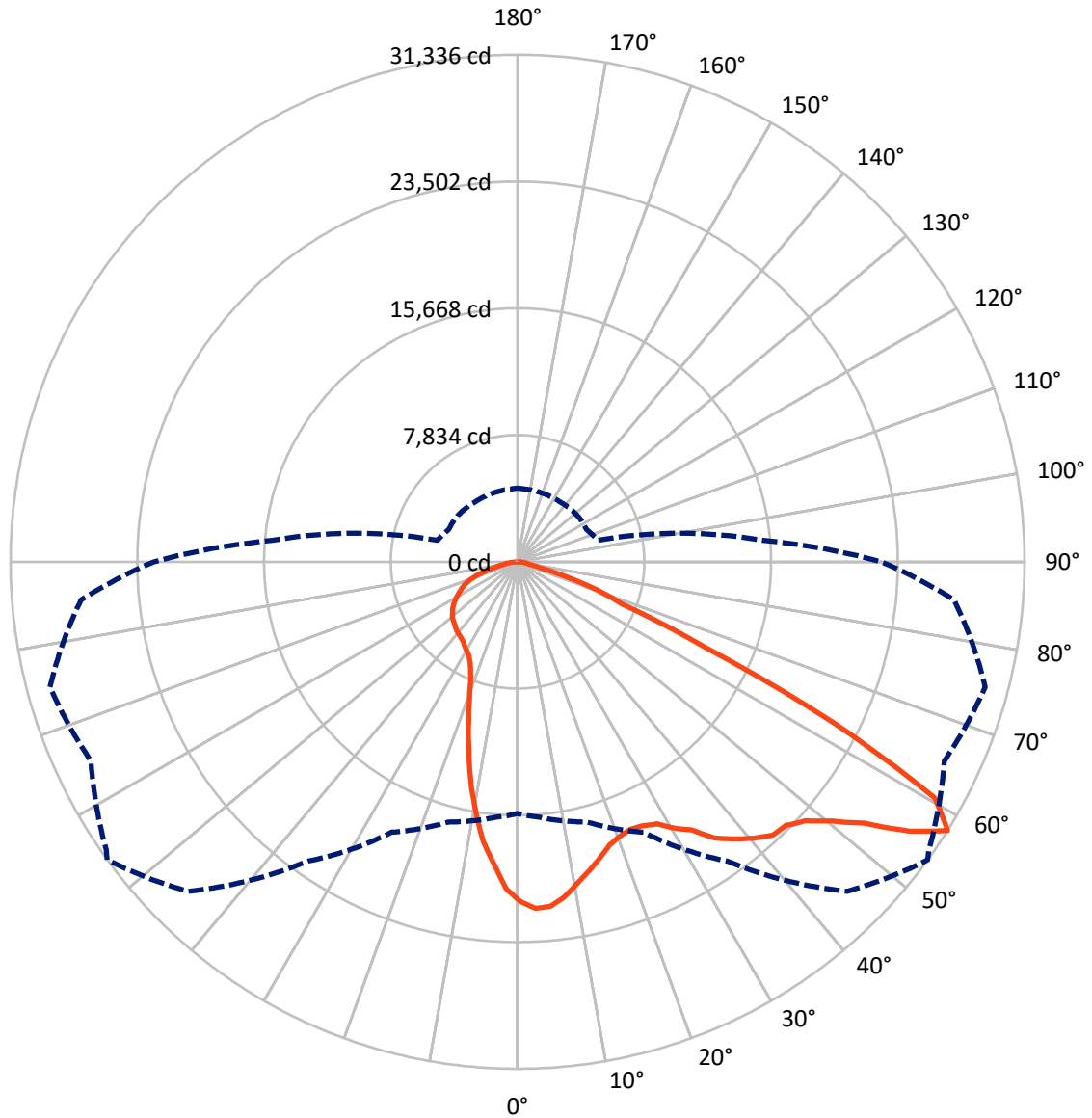
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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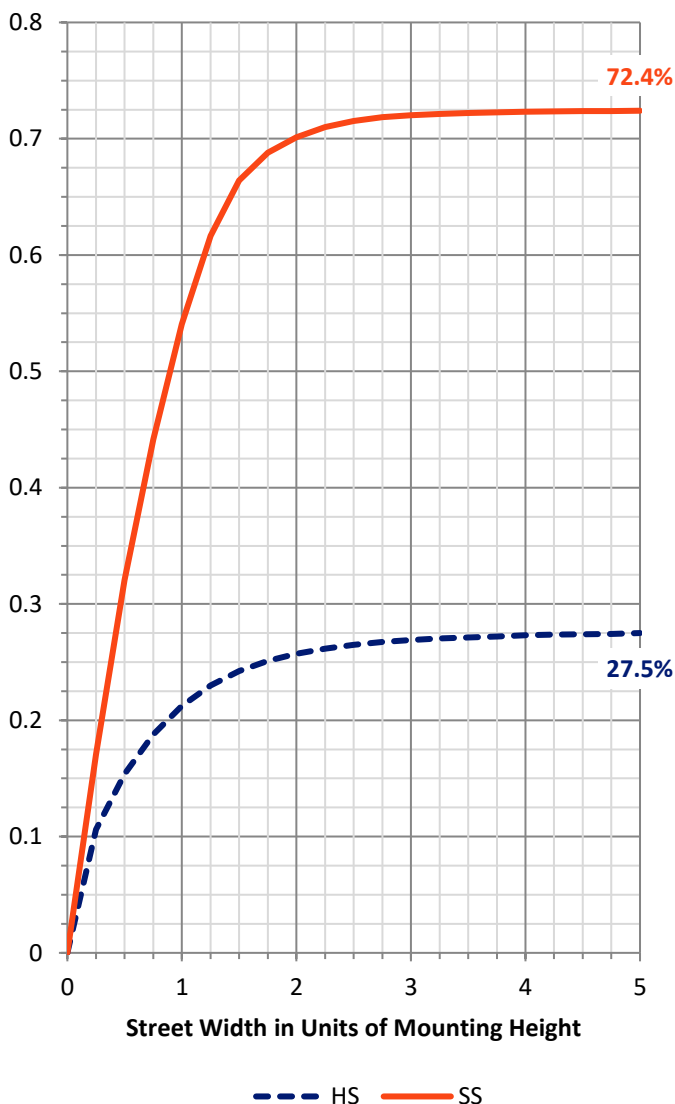
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14948.5	0.0	14948.5
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	39084.5	0.0	39084.5
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	54033.0	0.0	54033.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1811.2	3.4
10°-20°	4193.6	7.8
20°-30°	5892.1	10.9
30°-40°	8237.2	15.2
40°-50°	11151.6	20.6
50°-60°	13583.2	25.1
60°-70°	7074.7	13.1
70°-80°	1812.8	3.4
80°-90°	276.5	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	54033.0	100.0
0°-180°	54033.0	100.0

**Coefficient of Utilization**

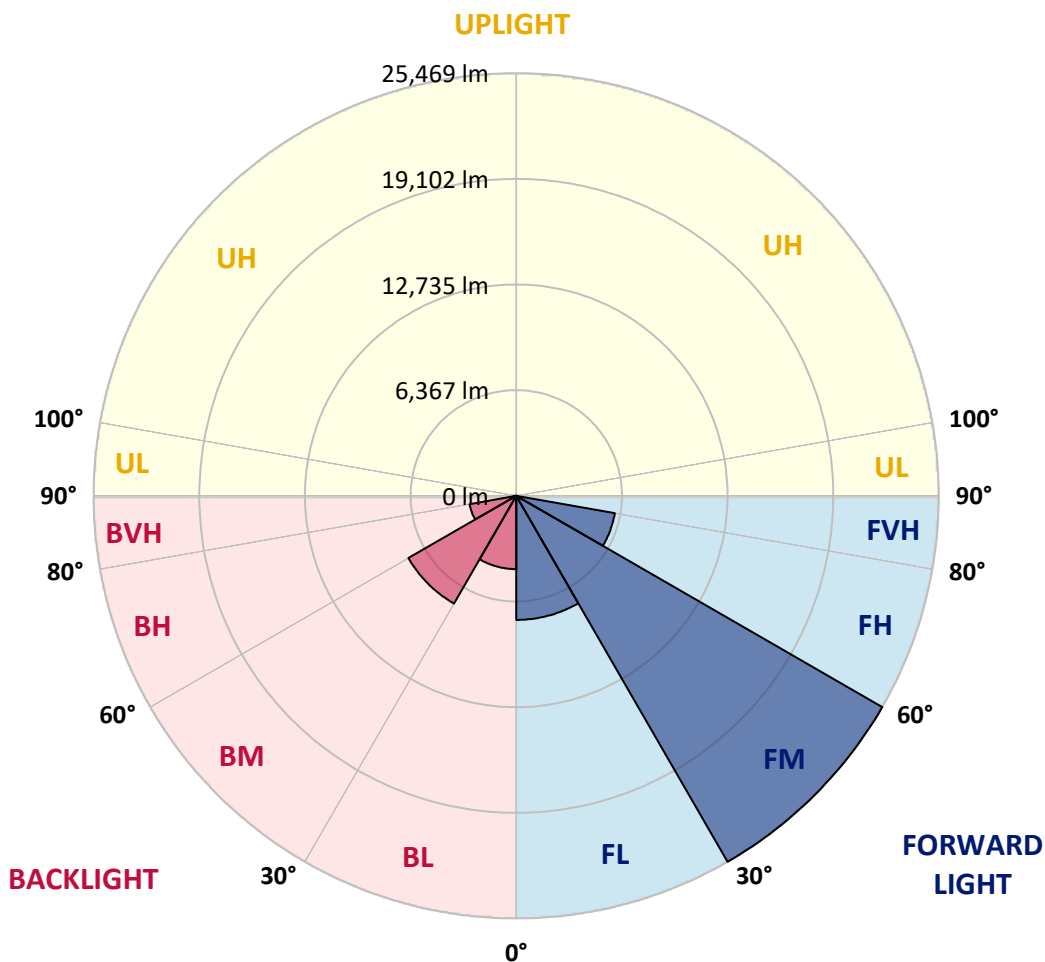


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7478.9	13.8			
FM (30°-60°)	25469.5	47.1			
FH (60°-80°)	6031.6	11.2			G3/7500
FVH (80°-90°)	104.5	0.2			G2/225
BL (0°-30°)	4418.1	8.2	B4/5000		
BM (30°-60°)	7502.5	13.9	B4/8500		
BH (60°-80°)	2855.9	5.3	B4/5000		G4/5000
BVH (80°-90°)	172.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	21002.0	21002.0	21002.0	21002.0	21002.0	21002.0	21002.0	21002.0	21002.0	21002.0	21002.0
2.5°	21599.3	21515.9	21529.8	21641.0	21502.1	21446.5	21446.5	21175.6	21196.5	21009.0	20960.3
5°	21099.2	20904.8	21036.7	21203.4	21231.2	21286.8	21377.0	21307.6	21113.1	20911.7	20585.3
7.5°	19793.6	19967.2	20015.8	20133.9	20383.9	20613.1	20897.8	20703.4	20696.4	20495.0	20300.6
10°	18647.6	18543.4	18807.4	18981.0	19397.7	19779.7	20217.2	20196.4	20300.6	20071.4	19738.0
12.5°	17508.6	17425.3	17550.3	17946.2	18529.5	19085.2	19606.0	19411.6	19967.2	19925.5	19210.2
15°	16300.2	16362.7	16543.2	16911.3	17675.3	18342.0	19001.8	19008.8	19501.9	19668.5	18710.1
17.5°	15452.9	15383.4	15612.6	16161.3	16841.9	17640.6	18390.6	18543.4	19300.5	19397.7	18557.3
20°	14820.9	14918.1	15216.7	15494.5	16279.3	17244.7	18092.0	18147.6	19258.8	19522.7	18314.3
22.5°	14668.1	14612.5	14709.7	15161.2	15807.1	16855.8	17932.3	18140.6	19251.8	19481.0	17855.9
25°	14508.3	14688.9	14682.0	15133.4	15605.7	16543.2	18064.2	18293.4	19619.9	19696.3	17918.4
27.5°	14869.5	14848.6	15043.1	15077.8	15661.2	16626.6	18342.0	18515.7	20231.1	20168.6	17967.0
30°	15230.6	15126.4	15244.5	15654.3	15925.1	17105.8	19106.0	19092.1	21022.8	20981.2	18119.8
32.5°	15675.1	15626.5	15702.9	16064.0	16522.4	17744.8	19751.9	20161.7	21828.5	22092.4	18647.6
35°	15758.5	15959.9	16140.4	16626.6	17279.4	18779.6	20967.3	21307.6	22759.1	23585.6	19654.7
37.5°	16286.3	16362.7	16786.3	17647.5	18244.8	20161.7	21738.2	21953.5	23606.4	24544.0	20717.3
40°	16848.8	16939.1	17578.1	18480.9	19300.5	21064.5	22460.5	22529.9	23877.3	25280.2	21411.8
42.5°	17612.8	17696.1	18328.1	19460.2	20557.5	21835.4	23099.4	23175.8	23856.4	26127.5	22516.0
45°	18404.5	18605.9	19349.1	20633.9	21620.1	22738.3	23245.3	23557.8	24050.9	26884.5	23412.0
47.5°	19515.8	19703.3	20314.4	21571.5	22724.4	23530.0	23919.0	24224.5	24516.2	27544.3	23988.4
50°	20696.4	20731.1	21474.3	22613.3	23460.6	24425.9	25176.0	25280.2	25127.4	28308.3	24967.7
52.5°	21564.6	21675.7	22252.1	23363.3	24627.4	25815.0	26842.8	26954.0	26655.3	28593.0	25301.0
55°	20126.9	20064.4	21002.0	22481.3	25412.2	27884.6	29377.8	29461.2	27766.5	29475.0	26391.4
57.5°	15557.0	15855.7	16654.4	18439.3	22578.5	28801.4	31336.3	31037.7	29100.0	29919.5	27085.9
60°	11306.6	11237.2	11772.0	12966.5	17015.5	24821.8	29627.8	29933.4	28009.6	26967.9	22335.5
62.5°	9209.2	9112.0	9153.7	9195.3	10980.2	16473.8	21932.7	21925.7	21571.5	19383.8	15063.9
65°	7361.8	7591.0	7611.8	7924.4	8153.6	9841.2	12709.5	13390.2	11660.8	9563.4	6938.2
67.5°	5549.1	5465.8	5743.6	6854.8	7285.4	7104.8	6938.2	7014.6	4986.6	3597.6	3389.2
70°	3271.1	3236.4	3569.8	4778.2	6000.6	5646.4	5229.7	5236.6	3423.9	2514.1	2798.9
72.5°	1791.8	1784.9	1854.3	2423.8	3410.0	3542.0	3139.2	3236.4	2041.9	2034.9	2187.7
75°	1000.1	979.3	958.4	1069.5	1229.3	1298.7	1326.5	1340.4	1402.9	1569.6	1632.1
77.5°	368.1	354.2	354.2	409.8	520.9	652.8	826.5	840.4	993.2	1139.0	1201.5
80°	125.0	138.9	187.5	257.0	347.3	465.3	562.6	576.4	701.5	798.7	819.5
82.5°	76.4	83.3	125.0	180.6	250.0	326.4	416.7	423.7	520.9	583.4	611.2
85°	34.7	41.7	69.5	111.1	159.7	215.3	222.2	222.2	215.3	222.2	208.4
87.5°	0.0	0.0	13.9	13.9	13.9	20.8	27.8	20.8	34.7	41.7	41.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	21002.0	21002.0	21002.0	21002.0	21002.0	21002.0	21002.0	21002.0	21002.0	21002.0	21002.0
2.5°	20814.5	20738.1	20502.0	20293.6	20231.1	19953.3	19543.5	19592.2	19293.5	19432.4	19286.6
5°	20529.7	20272.8	19668.5	19411.6	18737.9	18432.3	18224.0	17703.1	17460.0	17411.4	17203.0
7.5°	19800.5	19640.8	18883.8	18189.2	17473.9	16862.7	16077.9	15543.2	15161.2	15057.0	14751.4
10°	19224.1	18869.9	17821.1	16765.5	15744.6	14682.0	13661.0	12862.3	12473.4	12022.0	11869.2
12.5°	18654.6	18119.8	16703.0	15348.7	14029.1	12688.7	11452.5	10480.2	9632.9	9431.5	9362.0
15°	18300.4	17369.7	15702.9	14070.8	12195.6	10445.4	9209.2	8570.3	8049.4	7834.1	7986.9
17.5°	17835.0	16751.6	14744.5	12570.6	10507.9	8896.7	7861.9	7466.0	7278.5	7299.3	7236.8
20°	17251.6	16168.2	13487.4	11209.4	9000.9	7716.0	7125.7	6979.8	7007.6	7056.2	7035.4
22.5°	16834.9	15459.8	12577.6	9820.4	7778.5	7063.2	6820.1	6715.9	6806.2	6847.9	6813.2
25°	16515.5	14855.6	11473.3	8591.1	7070.1	6695.1	6584.0	6577.0	6715.9	6771.5	6736.8
27.5°	16223.8	14293.0	10376.0	7653.5	6597.9	6410.3	6375.6	6459.0	6549.2	6604.8	6653.4
30°	16050.1	13862.4	9348.1	6868.7	6361.7	6271.4	6208.9	6285.3	6333.9	6389.5	6361.7
32.5°	16216.8	13556.9	8355.0	6424.2	6167.3	6077.0	6160.3	6111.7	6195.0	6243.7	6167.3
35°	16737.7	13286.0	7646.6	6188.1	5945.0	5979.7	5993.6	5972.8	6007.5	5965.8	6056.1
37.5°	17251.6	13188.8	6993.7	5986.7	5840.8	5840.8	5826.9	5785.3	5854.7	5840.8	5882.5
40°	17904.5	13251.3	6438.1	5771.4	5743.6	5729.7	5674.2	5667.2	5639.4	5646.4	5660.3
42.5°	18474.0	13390.2	6118.6	5632.5	5653.3	5681.1	5576.9	5493.6	5528.3	5458.9	5458.9
45°	19078.2	13515.2	5833.9	5535.3	5514.4	5507.5	5424.1	5375.5	5347.7	5354.7	5417.2
47.5°	20029.7	13695.8	5618.6	5403.3	5417.2	5313.0	5292.2	5229.7	5257.4	5299.1	5306.1
50°	20703.4	14077.7	5451.9	5250.5	5299.1	5229.7	5104.7	5076.9	5076.9	5146.3	5132.4
52.5°	21175.6	14612.5	5292.2	5083.8	5104.7	5049.1	5007.4	4944.9	4903.2	5000.5	5049.1
55°	22620.2	15501.5	5250.5	4944.9	4938.0	4882.4	4806.0	4743.5	4722.7	4736.6	4833.8
57.5°	22481.3	15223.7	5118.5	4701.8	4687.9	4611.6	4535.2	4514.3	4507.4	4521.3	4549.0
60°	18251.7	11244.1	4569.9	4424.0	4403.2	4389.3	4312.9	4229.6	4187.9	4229.6	4194.8
62.5°	12077.5	7528.5	4028.2	4090.7	4104.6	4069.8	3944.8	3861.5	3875.4	3924.0	3847.6
65°	5931.1	4424.0	3653.1	3819.8	3833.7	3736.5	3618.4	3521.2	3472.6	3514.2	3479.5
67.5°	3389.2	3382.3	3347.5	3521.2	3514.2	3417.0	3229.5	3146.1	3062.8	3076.7	3055.8
70°	2875.3	2930.8	3000.3	3104.5	3097.5	2986.4	2764.2	2701.6	2583.6	2569.7	2535.0
72.5°	2264.1	2361.3	2514.1	2590.5	2528.0	2389.1	2243.3	2139.1	2034.9	1972.4	1993.2
75°	1680.7	1819.6	1903.0	1951.6	1854.3	1777.9	1659.9	1534.9	1409.9	1354.3	1333.5
77.5°	1222.3	1264.0	1340.4	1375.1	1312.6	1236.2	1166.8	1041.8	923.7	847.3	826.5
80°	854.2	882.0	937.6	937.6	937.6	902.9	812.6	687.6	611.2	541.7	527.8
82.5°	597.3	625.1	680.6	652.8	645.9	604.2	548.7	451.4	368.1	319.5	305.6
85°	208.4	229.2	277.8	333.4	354.2	347.3	312.5	250.0	194.5	159.7	145.8
87.5°	48.6	48.6	55.6	48.6	48.6	55.6	48.6	48.6	48.6	34.7	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)