

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: P532394

Luminaire Tested: **GALN-SA7D-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532394  
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-SA7D-730-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 41514 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

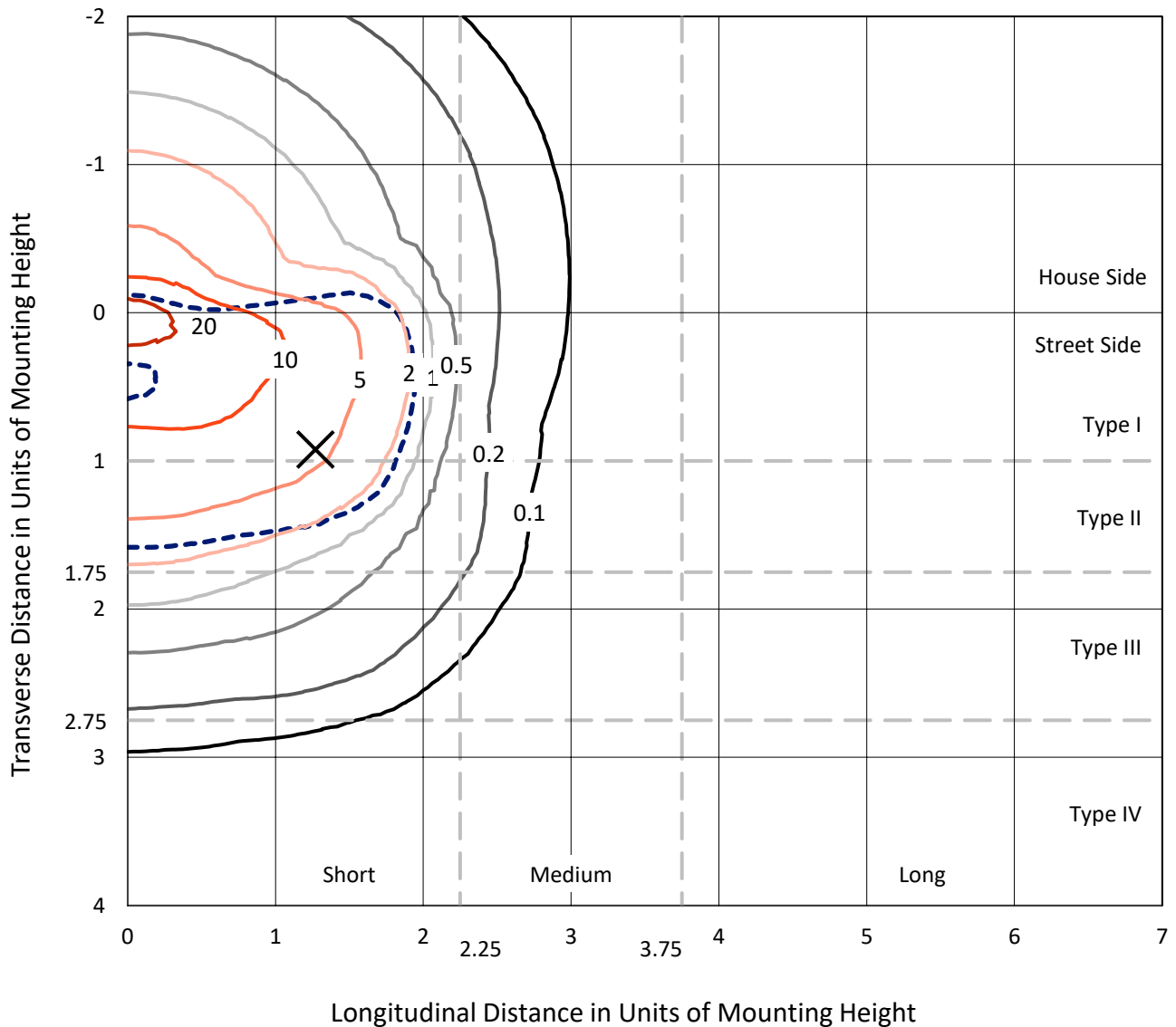
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

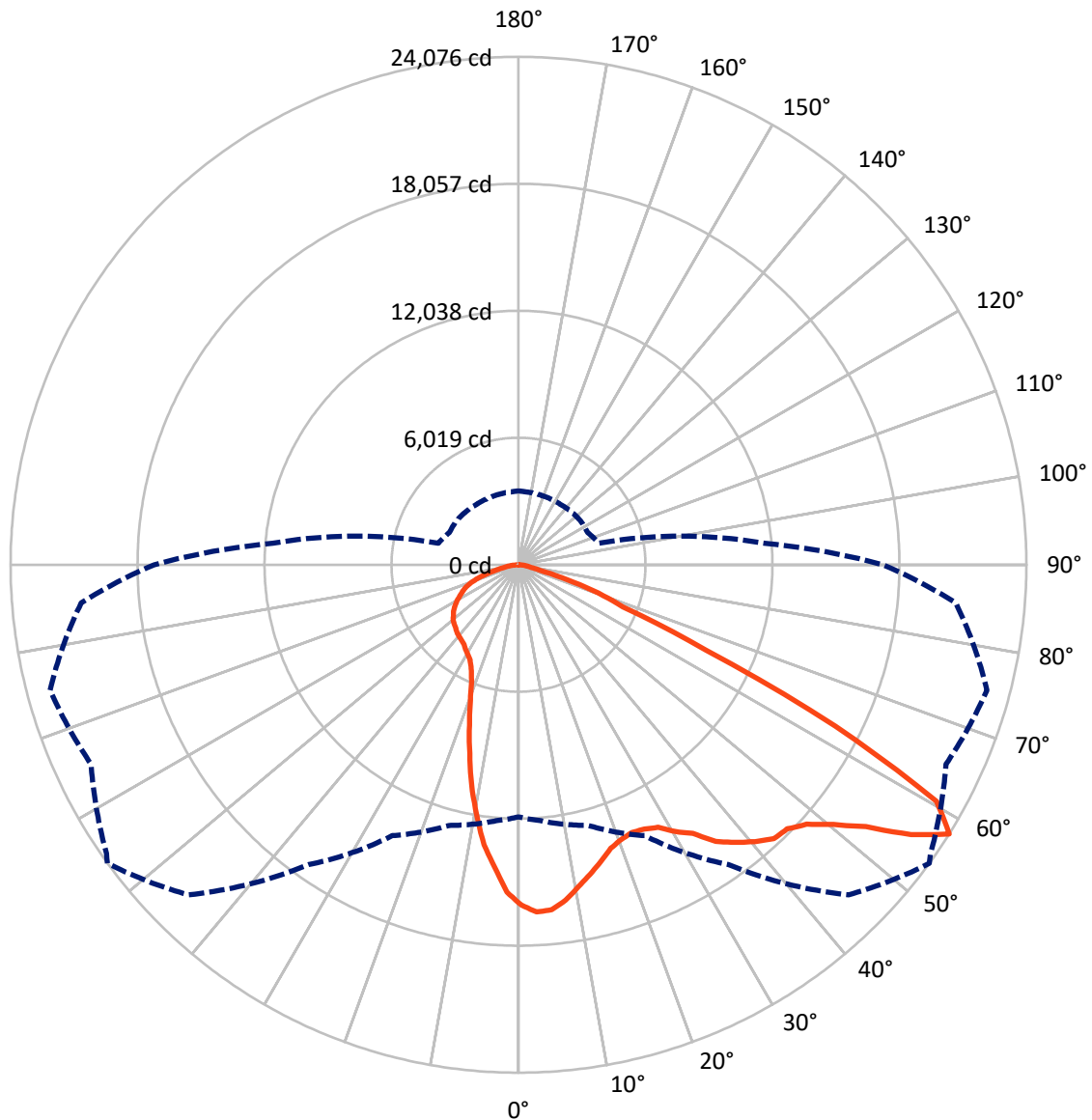
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.8 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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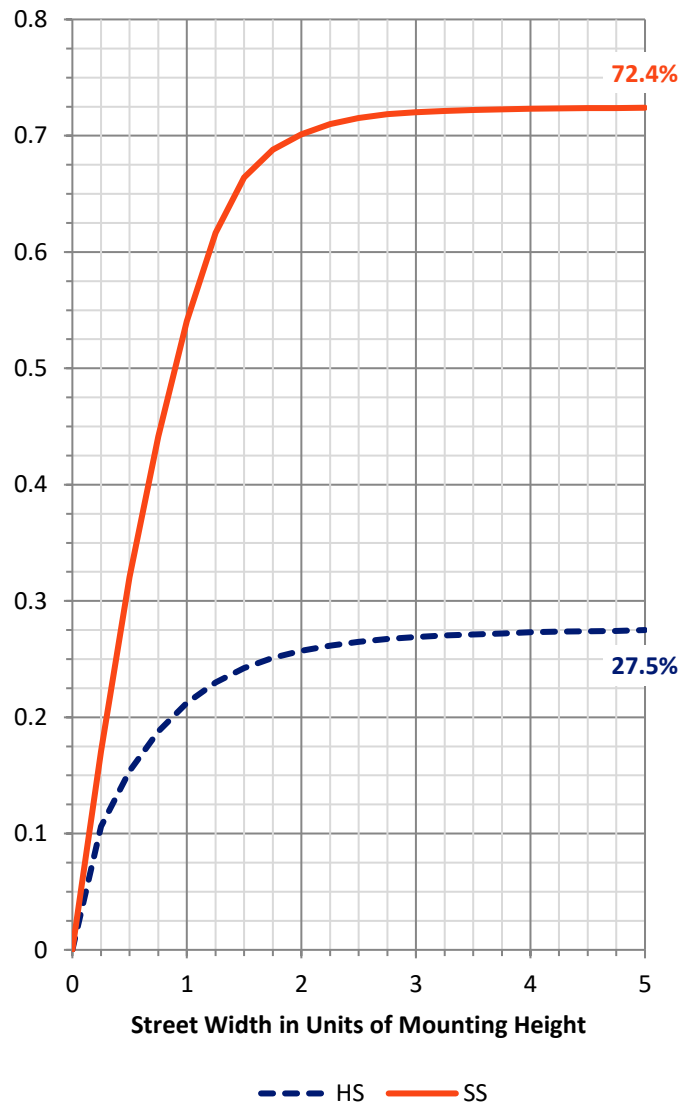
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11485.1	0.0	11485.1
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	30028.9	0.0	30028.9
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	41514.0	0.0	41514.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1391.6	3.4
10°-20°	3222.0	7.8
20°-30°	4527.0	10.9
30°-40°	6328.7	15.2
40°-50°	8567.9	20.6
50°-60°	10436.1	25.1
60°-70°	5435.5	13.1
70°-80°	1392.8	3.4
80°-90°	212.5	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°	41514.0	100.0
0°-180°	41514.0	100.0

**Coefficient of Utilization**

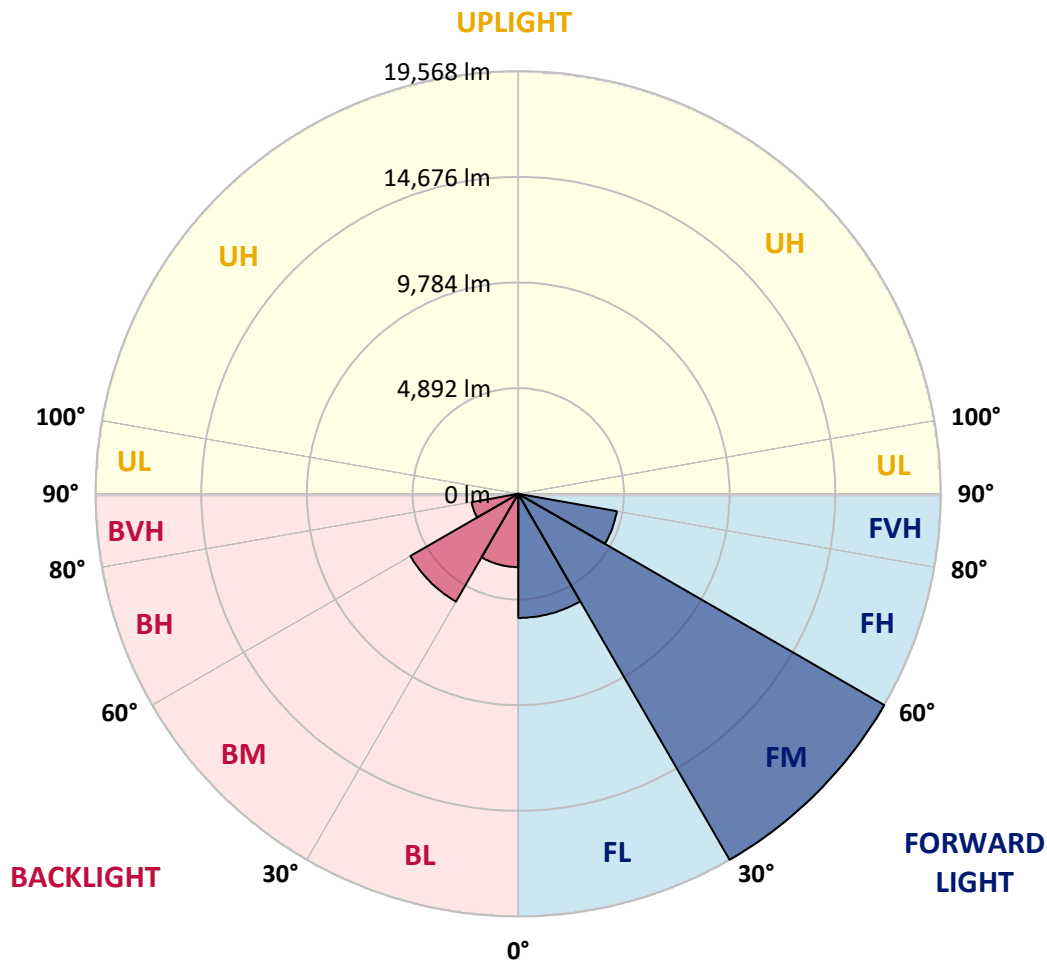


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5746.1	13.8			
FM (30°-60°)	19568.4	47.1			
FH (60°-80°)	4634.1	11.2			G2/5000
FVH (80°-90°)	80.3	0.2			G1/100
BL (0°-30°)	3394.4	8.2	B4/5000		
BM (30°-60°)	5764.3	13.9	B4/8500		
BH (60°-80°)	2194.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	132.2	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-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	16136.0	16136.0	16136.0	16136.0	16136.0	16136.0	16136.0	16136.0	16136.0	16136.0	16136.0
2.5°	16594.9	16530.9	16541.6	16626.9	16520.2	16477.5	16477.5	16269.4	16285.4	16141.4	16104.0
5°	16210.7	16061.3	16162.7	16290.8	16312.1	16354.8	16424.2	16370.8	16221.4	16066.6	15815.9
7.5°	15207.6	15341.0	15378.3	15469.0	15661.1	15837.2	16056.0	15906.6	15901.2	15746.5	15597.1
10°	14327.1	14247.1	14449.8	14583.2	14903.4	15196.9	15533.1	15517.0	15597.1	15421.0	15164.9
12.5°	13452.0	13388.0	13484.0	13788.2	14236.4	14663.3	15063.5	14914.1	15341.0	15308.9	14759.3
15°	12523.6	12571.6	12710.3	12993.1	13580.1	14092.3	14599.3	14604.6	14983.4	15111.5	14375.1
17.5°	11872.6	11819.2	11995.3	12416.8	12939.8	13553.4	14129.7	14247.1	14828.7	14903.4	14257.7
20°	11387.0	11461.7	11691.1	11904.6	12507.5	13249.2	13900.2	13942.9	14796.7	14999.5	14071.0
22.5°	11269.6	11226.9	11301.6	11648.5	12144.7	12950.4	13777.5	13937.6	14791.3	14967.4	13718.8
25°	11146.9	11285.6	11280.3	11627.1	11990.0	12710.3	13878.9	14055.0	15074.2	15132.9	13766.8
27.5°	11424.3	11408.3	11557.7	11584.4	12032.6	12774.3	14092.3	14225.7	15543.7	15495.7	13804.2
30°	11701.8	11621.8	11712.5	12027.3	12235.4	13142.5	14679.3	14668.6	16152.0	16120.0	13921.6
32.5°	12043.3	12006.0	12064.7	12342.1	12694.3	13633.4	15175.5	15490.4	16771.0	16973.8	14327.1
35°	12107.3	12262.1	12400.8	12774.3	13275.9	14428.5	16109.3	16370.8	17486.0	18121.0	15100.8
37.5°	12512.9	12571.6	12897.1	13558.7	14017.6	15490.4	16701.6	16867.0	18137.0	18857.4	15917.2
40°	12945.1	13014.5	13505.4	14199.1	14828.7	16184.0	17256.6	17309.9	18345.1	19423.0	16450.8
42.5°	13532.1	13596.1	14081.7	14951.4	15794.5	16776.3	17747.5	17806.2	18329.1	20074.0	17299.3
45°	14140.4	14295.1	14866.1	15853.2	16610.9	17470.0	17859.5	18099.7	18478.5	20655.6	17987.6
47.5°	14994.1	15138.2	15607.8	16573.6	17459.3	18078.3	18377.1	18611.9	18836.0	21162.5	18430.5
50°	15901.2	15927.9	16498.9	17374.0	18025.0	18766.7	19342.9	19423.0	19305.6	21749.5	19182.9
52.5°	16568.2	16653.6	17096.5	17950.3	18921.4	19833.9	20623.6	20709.0	20479.5	21968.2	19439.0
55°	15463.7	15415.7	16136.0	17272.6	19524.4	21424.0	22571.2	22635.2	21333.3	22645.9	20276.7
57.5°	11952.6	12182.1	12795.7	14167.0	17347.3	22128.3	24076.0	23846.5	22357.8	22987.4	20810.3
60°	8687.0	8633.6	9044.5	9962.3	13073.2	19070.8	22763.3	22998.1	21520.0	20719.6	17160.5
62.5°	7075.5	7000.8	7032.8	7064.8	8436.2	12657.0	16851.0	16845.7	16573.6	14892.7	11573.7
65°	5656.1	5832.2	5848.2	6088.4	6264.4	7561.1	9764.9	10287.8	8959.1	7347.7	5330.6
67.5°	4263.5	4199.4	4412.9	5266.6	5597.4	5458.7	5330.6	5389.3	3831.2	2764.0	2604.0
70°	2513.2	2486.6	2742.7	3671.2	4610.3	4338.2	4018.0	4023.3	2630.6	1931.6	2150.4
72.5°	1376.7	1371.3	1424.7	1862.3	2620.0	2721.4	2411.9	2486.6	1568.8	1563.4	1680.8
75°	768.4	752.4	736.4	821.7	944.5	997.8	1019.2	1029.8	1077.9	1205.9	1254.0
77.5°	282.8	272.1	272.1	314.8	400.2	501.6	635.0	645.7	763.0	875.1	923.1
80°	96.0	106.7	144.1	197.4	266.8	357.5	432.2	442.9	538.9	613.6	629.6
82.5°	58.7	64.0	96.0	138.7	192.1	250.8	320.2	325.5	400.2	448.2	469.6
85°	26.7	32.0	53.4	85.4	122.7	165.4	170.8	170.8	165.4	170.8	160.1
87.5°	0.0	0.0	10.7	10.7	10.7	16.0	21.3	16.0	26.7	32.0	32.0
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°	16136.0	16136.0	16136.0	16136.0	16136.0	16136.0	16136.0	16136.0	16136.0	16136.0	16136.0
2.5°	15991.9	15933.2	15751.8	15591.7	15543.7	15330.3	15015.5	15052.8	14823.4	14930.1	14818.0
5°	15773.2	15575.7	15111.5	14914.1	14396.5	14161.7	14001.6	13601.4	13414.7	13377.3	13217.2
7.5°	15212.9	15090.2	14508.5	13974.9	13425.3	12955.8	12352.8	11941.9	11648.5	11568.4	11333.6
10°	14770.0	14497.9	13692.1	12881.1	12096.7	11280.3	10495.9	9882.2	9583.4	9236.6	9119.2
12.5°	14332.5	13921.6	12833.0	11792.5	10778.7	9748.8	8799.0	8052.0	7401.0	7246.3	7192.9
15°	14060.3	13345.3	12064.7	10810.7	9370.0	8025.3	7075.5	6584.6	6184.4	6019.0	6136.4
17.5°	13702.8	12870.4	11328.3	9658.1	8073.3	6835.4	6040.3	5736.2	5592.1	5608.1	5560.1
20°	13254.6	12422.2	10362.5	8612.3	6915.4	5928.3	5474.7	5362.7	5384.0	5421.4	5405.4
22.5°	12934.4	11877.9	9663.5	7545.1	5976.3	5426.7	5239.9	5159.9	5229.3	5261.3	5234.6
25°	12689.0	11413.7	8815.0	6600.6	5432.0	5143.9	5058.5	5053.2	5159.9	5202.6	5175.9
27.5°	12464.9	10981.5	7972.0	5880.3	5069.2	4925.1	4898.4	4962.5	5031.8	5074.5	5111.9
30°	12331.5	10650.6	7182.2	5277.3	4887.8	4818.4	4770.4	4829.1	4866.4	4909.1	4887.8
32.5°	12459.5	10415.8	6419.2	4935.8	4738.4	4669.0	4733.0	4695.7	4759.7	4797.0	4738.4
35°	12859.7	10207.7	5874.9	4754.4	4567.6	4594.3	4605.0	4588.9	4615.6	4583.6	4653.0
37.5°	13254.6	10133.0	5373.3	4599.6	4487.6	4487.6	4476.9	4444.9	4498.2	4487.6	4519.6
40°	13756.2	10181.1	4946.5	4434.2	4412.9	4402.2	4359.5	4354.2	4332.8	4338.2	4348.8
42.5°	14193.7	10287.8	4701.0	4327.5	4343.5	4364.8	4284.8	4220.8	4247.4	4194.1	4194.1
45°	14657.9	10383.8	4482.2	4252.8	4236.8	4231.4	4167.4	4130.1	4108.7	4114.0	4162.1
47.5°	15389.0	10522.6	4316.8	4151.4	4162.1	4082.0	4066.0	4018.0	4039.3	4071.4	4076.7
50°	15906.6	10816.0	4188.7	4034.0	4071.4	4018.0	3921.9	3900.6	3900.6	3954.0	3943.3
52.5°	16269.4	11226.9	4066.0	3905.9	3921.9	3879.3	3847.2	3799.2	3767.2	3841.9	3879.3
55°	17379.3	11909.9	4034.0	3799.2	3793.9	3751.2	3692.5	3644.5	3628.5	3639.1	3713.8
57.5°	17272.6	11696.5	3932.6	3612.5	3601.8	3543.1	3484.4	3468.4	3463.1	3473.7	3495.1
60°	14023.0	8639.0	3511.1	3399.0	3383.0	3372.3	3313.6	3249.6	3217.6	3249.6	3222.9
62.5°	9279.3	5784.2	3094.9	3142.9	3153.6	3126.9	3030.8	2966.8	2977.5	3014.8	2956.1
65°	4556.9	3399.0	2806.7	2934.8	2945.5	2870.8	2780.0	2705.3	2668.0	2700.0	2673.3
67.5°	2604.0	2598.6	2571.9	2705.3	2700.0	2625.3	2481.2	2417.2	2353.2	2363.8	2347.8
70°	2209.1	2251.8	2305.1	2385.2	2379.8	2294.5	2123.7	2075.7	1985.0	1974.3	1947.6
72.5°	1739.5	1814.2	1931.6	1990.3	1942.3	1835.6	1723.5	1643.5	1563.4	1515.4	1531.4
75°	1291.3	1398.0	1462.1	1499.4	1424.7	1366.0	1275.3	1179.3	1083.2	1040.5	1024.5
77.5°	939.1	971.1	1029.8	1056.5	1008.5	949.8	896.4	800.4	709.7	651.0	635.0
80°	656.3	677.7	720.4	720.4	720.4	693.7	624.3	528.3	469.6	416.2	405.5
82.5°	458.9	480.2	522.9	501.6	496.2	464.2	421.5	346.8	282.8	245.5	234.8
85°	160.1	176.1	213.4	256.1	272.1	266.8	240.1	192.1	149.4	122.7	112.1
87.5°	37.4	37.4	42.7	37.4	37.4	42.7	37.4	37.4	37.4	26.7	21.3
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)