

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: P534277

Luminaire Tested: **GALN-SA9D-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
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-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38843 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G2

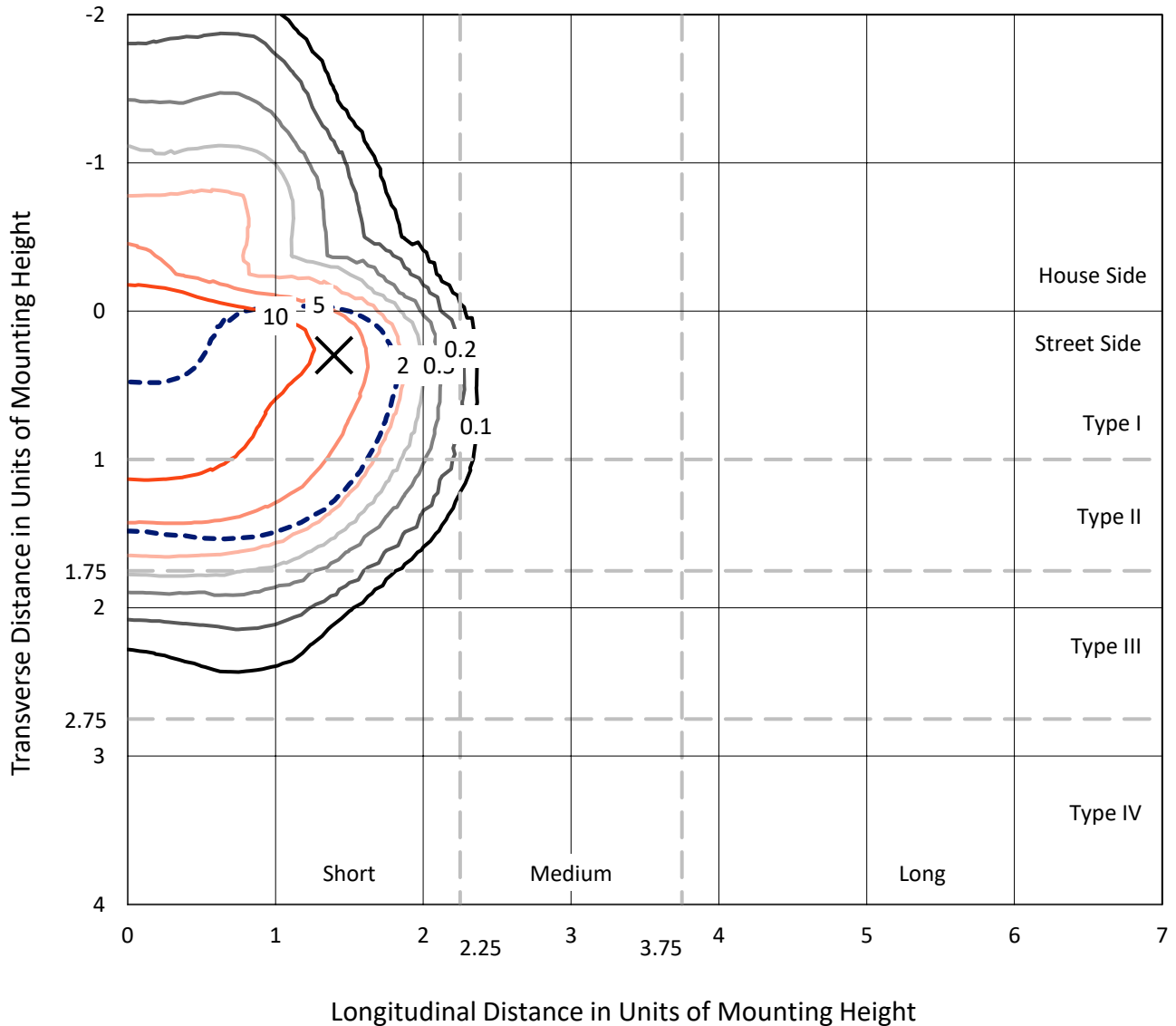
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

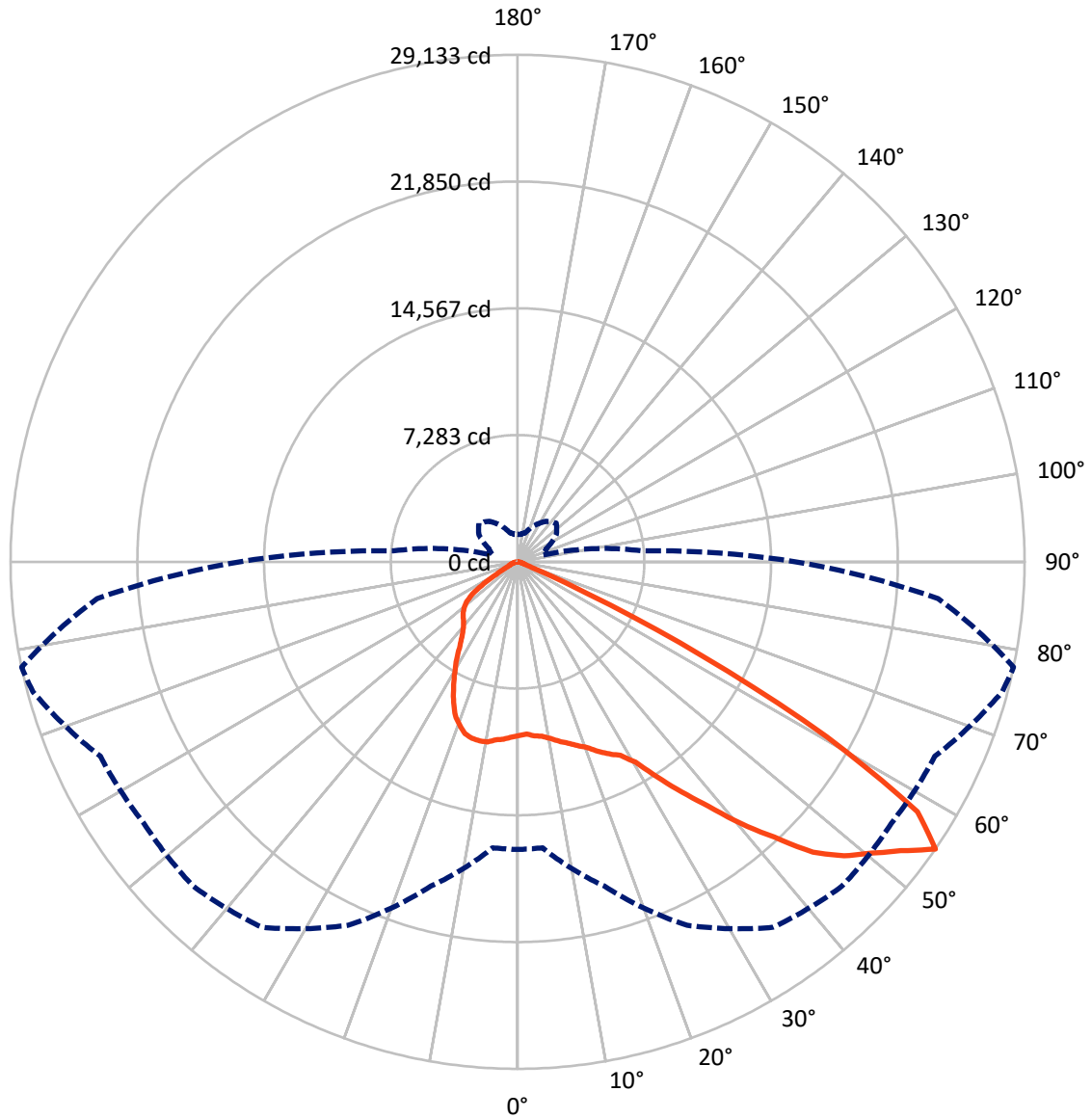
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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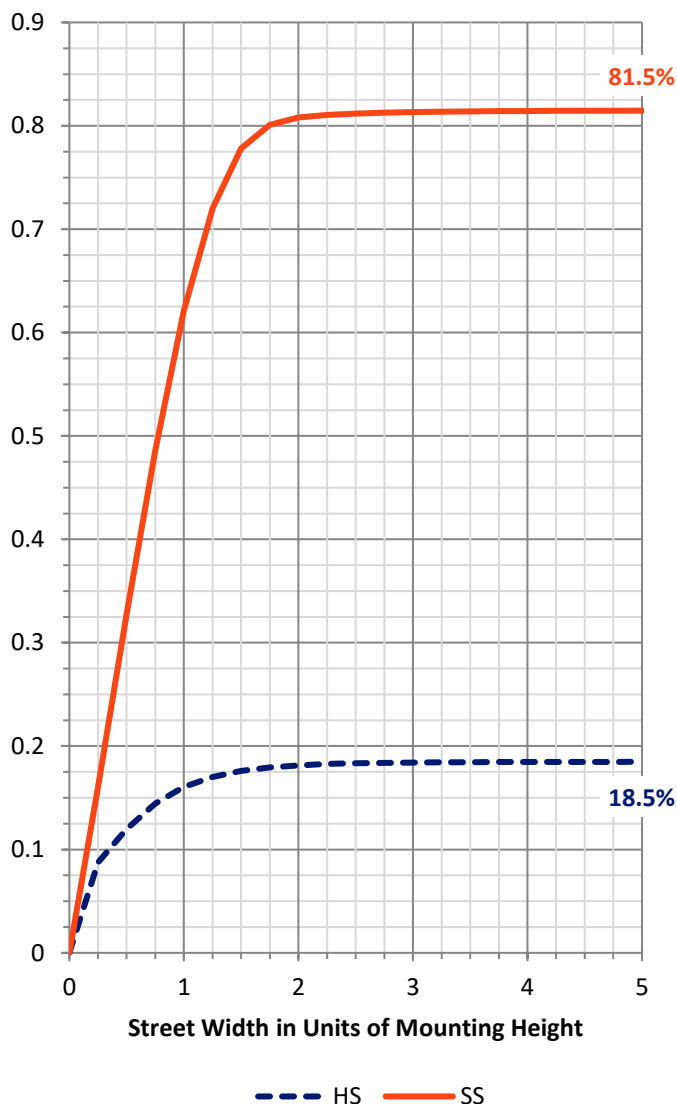
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7214.7	0.0	7214.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	31628.3	0.0	31628.3
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	38843.0	0.0	38843.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	890.5	2.3
10°-20°	2356.7	6.1
20°-30°	4130.8	10.6
30°-40°	6811.2	17.5
40°-50°	9911.2	25.5
50°-60°	11230.4	28.9
60°-70°	3211.0	8.3
70°-80°	249.3	0.6
80°-90°	51.9	0.1
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°	38843.0	100.0
0°-180°	38843.0	100.0

**Coefficient of Utilization**



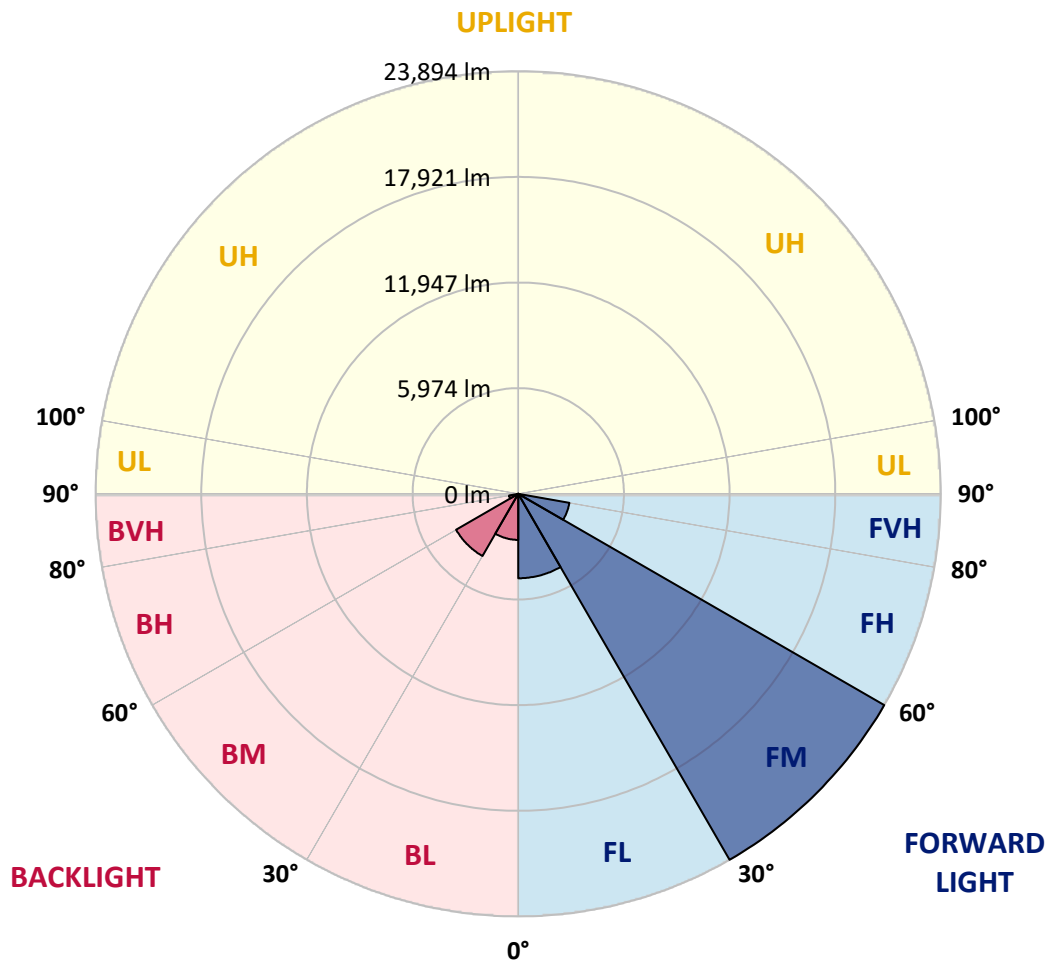
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4774.9	12.3			
FM (30°-60°)	23894.5	61.5			
FH (60°-80°)	2933.7	7.6			G2/5000
FVH (80°-90°)	25.3	0.1			G1/100
BL (0°-30°)	2603.1	6.7	B4/5000		
BM (30°-60°)	4058.4	10.4	B3/5000		
BH (60°-80°)	526.6	1.4	B2/1000		G2/1000
BVH (80°-90°)	26.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	9986.6	9986.6	9986.6	9986.6	9986.6	9986.6	9986.6	9986.6	9986.6	9986.6	9986.6
2.5°	9389.3	9479.6	9493.5	9604.6	9597.7	9785.2	9840.7	9847.7	9972.7	9910.2	10069.9
5°	9125.4	9076.8	9056.0	9250.4	9306.0	9472.6	9611.5	9694.9	9951.8	10042.1	10208.8
7.5°	8889.3	8889.3	8903.2	9076.8	9056.0	9271.2	9417.1	9674.0	10049.1	10125.5	10326.9
10°	8660.1	8576.8	8680.9	8861.5	9014.3	9111.5	9417.1	9660.2	10097.7	10319.9	10597.7
12.5°	8542.0	8583.7	8597.6	8729.6	8896.2	9187.9	9354.6	9757.4	10444.9	10576.9	10875.5
15°	9285.1	9201.8	9000.4	8882.3	9021.2	9160.1	9576.8	9986.6	10625.5	10813.0	11146.3
17.5°	10146.3	10076.8	9910.2	9590.7	9278.2	9535.1	9861.6	10236.6	10819.9	11097.7	11590.8
20°	11271.3	11160.2	10993.5	10368.5	10097.7	9819.9	10167.1	10611.6	11139.4	11389.4	11896.4
22.5°	12611.7	12611.7	12236.7	11479.7	10917.2	10653.3	10799.1	11056.1	11493.6	11833.9	12333.9
25°	14007.6	13965.9	13625.6	12840.9	11889.4	11576.9	11743.6	11924.1	12042.2	12229.7	12563.1
27.5°	15604.9	15361.8	14931.2	14063.1	13222.8	12618.6	12799.2	12639.5	12493.6	12590.8	13070.0
30°	16688.2	16841.0	16292.4	15459.0	14667.3	13993.7	14028.4	13889.5	13222.8	13361.7	13646.4
32.5°	17813.3	17910.5	17605.0	17146.6	16354.9	15570.1	15285.4	15167.3	14667.3	14729.8	14452.0
35°	18750.8	18938.3	18667.5	18466.1	18236.9	17605.0	16820.2	17202.2	16396.6	16243.8	15521.5
37.5°	19612.0	19556.4	19875.9	19667.5	19618.9	19174.5	18313.3	18389.7	17848.0	17813.3	16979.9
40°	20382.9	20396.7	20834.3	20931.5	20737.0	19945.3	18695.3	19299.5	19737.0	19778.7	18709.2
42.5°	21021.8	21209.3	21584.3	22369.1	22077.4	20757.9	19091.1	19750.9	21376.0	21632.9	20348.1
45°	21577.4	21959.3	22424.6	23126.0	22959.4	21910.7	20077.3	20681.5	23126.0	23799.7	21889.9
47.5°	21612.1	22112.1	22619.1	23660.8	23869.1	22528.8	21098.2	22153.8	24515.0	25244.2	23014.9
50°	21473.2	21737.1	22751.0	23883.0	24355.3	23535.8	22528.8	23389.9	25862.3	26320.6	23584.4
52.5°	19827.3	20028.7	22063.5	24091.4	25230.3	24674.7	24424.7	25112.2	27237.3	27577.6	24119.1
55°	16528.5	16493.8	19292.5	23042.7	25633.1	26362.3	26209.5	26452.6	28827.7	29133.2	24251.1
57.5°	11306.1	11938.0	14354.8	19188.4	23167.7	25966.4	26126.2	25723.4	26973.4	27091.5	21139.8
60°	6097.5	6361.4	8305.9	12806.1	17639.7	21160.7	21577.4	20848.2	20750.9	20417.6	15091.0
62.5°	2423.7	2555.7	3659.9	6340.6	9611.5	12861.7	13757.6	13458.9	12820.0	11945.0	7812.8
65°	1152.8	1236.2	1819.5	2965.4	4264.1	5361.4	6257.2	6535.0	4819.7	4340.5	2576.5
67.5°	784.8	847.3	1326.4	1694.5	1520.9	1590.3	2069.5	1923.7	1132.0	965.3	715.3
70°	597.2	638.9	1062.5	1152.8	680.6	479.2	534.7	500.0	465.3	472.2	465.3
72.5°	423.6	458.4	777.8	680.6	298.6	222.2	284.7	340.3	340.3	340.3	333.3
75°	257.0	291.7	451.4	263.9	118.1	118.1	180.6	229.2	243.1	250.0	236.1
77.5°	132.0	166.7	152.8	76.4	76.4	90.3	132.0	159.7	173.6	173.6	166.7
80°	27.8	27.8	27.8	41.7	76.4	97.2	132.0	145.8	166.7	166.7	152.8
82.5°	0.0	6.9	20.8	41.7	69.4	90.3	125.0	145.8	166.7	173.6	159.7
85°	0.0	6.9	13.9	27.8	48.6	55.6	48.6	41.7	41.7	41.7	41.7
87.5°	0.0	0.0	6.9	6.9	6.9	13.9	13.9	13.9	13.9	13.9	13.9
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°	9986.6	9986.6	9986.6	9986.6	9986.6	9986.6	9986.6	9986.6	9986.6	9986.6	9986.6
2.5°	10083.8	10104.6	10069.9	10063.0	10035.2	10118.5	9917.1	9868.5	9993.5	9875.4	9903.2
5°	10215.7	10264.3	10201.8	10097.7	9944.9	9708.8	9507.4	9243.5	9118.5	9028.2	9014.3
7.5°	10313.0	10347.7	10285.2	9951.8	9493.5	8896.2	8451.8	8125.4	7868.4	7792.0	7667.0
10°	10708.8	10715.8	10403.2	9667.1	8771.2	7986.5	7305.9	6805.9	6548.9	6389.2	6319.7
12.5°	10972.7	10958.8	10326.9	9104.6	7910.1	6868.4	6090.6	5486.4	5250.2	5173.8	5125.2
15°	11306.1	11229.7	10146.3	8528.2	6798.9	5673.9	4972.4	4555.8	4534.9	4486.3	4534.9
17.5°	11570.0	11354.7	9882.4	7479.5	5736.4	4673.8	4215.5	4243.2	4298.8	4347.4	4354.4
20°	12000.5	11556.1	9278.2	6562.8	4750.2	4007.1	4000.2	4125.2	4264.1	4319.6	4375.2
22.5°	12326.9	11639.4	8632.3	5583.6	3944.6	3736.3	3854.3	4041.8	4146.0	4201.6	4284.9
25°	12445.0	11410.2	7771.2	4604.4	3555.7	3611.3	3791.8	3916.8	4048.8	4111.3	4076.6
27.5°	12563.1	11292.2	6743.4	3791.8	3347.4	3527.9	3680.7	3805.7	3847.4	3930.7	3986.3
30°	12847.8	10882.4	5819.7	3277.9	3243.2	3472.4	3583.5	3625.2	3736.3	3784.9	3784.9
32.5°	13077.0	10722.7	4840.5	3034.9	3229.3	3500.2	3514.0	3514.0	3527.9	3493.2	3479.3
35°	13549.2	10174.1	3965.5	2889.0	3222.4	3507.1	3541.8	3423.8	3104.3	2979.3	2944.6
37.5°	14132.6	9819.9	3319.6	2854.3	3271.0	3590.4	3646.0	3201.5	2784.8	2583.4	2548.7
40°	14840.9	9569.9	2896.0	2840.4	3382.1	3784.9	3618.2	3027.9	2486.2	2194.5	2180.7
42.5°	15667.4	9340.7	2611.2	2833.5	3521.0	3986.3	3590.4	2882.1	2180.7	1986.2	2014.0
45°	16327.1	9215.7	2416.8	2784.8	3569.6	4104.4	3611.3	2625.1	2055.6	1930.6	1944.5
47.5°	16841.0	8951.8	2257.0	2701.5	3562.7	4146.0	3423.8	2520.9	1993.1	2027.9	2062.6
50°	16854.9	8597.6	2055.6	2520.9	3458.5	4069.6	3208.5	2423.7	1979.3	2125.1	2194.5
52.5°	16667.4	8097.6	1840.4	2264.0	3215.4	3805.7	3014.0	2382.1	1916.8	1902.9	1986.2
55°	16000.7	7160.0	1479.2	1833.4	2715.4	3139.0	2840.4	2305.7	1729.2	1569.5	1583.4
57.5°	12931.1	5132.2	1090.3	1312.6	1923.7	2298.7	2562.6	2270.9	1555.6	1333.4	1340.3
60°	8007.3	2909.9	798.6	895.9	1187.6	1395.9	2076.5	2111.2	1389.0	1125.1	1111.2
62.5°	4111.3	1437.6	618.1	632.0	729.2	819.5	1423.7	1770.9	1257.0	1069.5	1069.5
65°	1375.1	708.4	541.7	486.1	486.1	507.0	861.1	1229.2	1062.5	895.9	895.9
67.5°	590.3	527.8	472.2	423.6	388.9	368.1	486.1	715.3	791.7	680.6	652.8
70°	458.4	444.5	409.7	354.2	305.6	277.8	284.7	368.1	451.4	437.5	423.6
72.5°	340.3	340.3	326.4	277.8	236.1	201.4	187.5	194.5	215.3	222.2	229.2
75°	236.1	243.1	243.1	215.3	173.6	145.8	125.0	104.2	83.3	69.4	62.5
77.5°	159.7	166.7	180.6	159.7	132.0	97.2	76.4	55.6	34.7	13.9	13.9
80°	138.9	159.7	173.6	159.7	138.9	104.2	76.4	41.7	20.8	0.0	0.0
82.5°	145.8	159.7	180.6	152.8	132.0	97.2	76.4	48.6	20.8	6.9	0.0
85°	34.7	34.7	41.7	48.6	62.5	69.4	55.6	34.7	20.8	6.9	0.0
87.5°	13.9	13.9	13.9	13.9	13.9	6.9	6.9	6.9	6.9	0.0	0.0
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)