

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: P531458

Luminaire Tested: **GALN-SA6D-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531458  
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-SA6D-730-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 35343 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

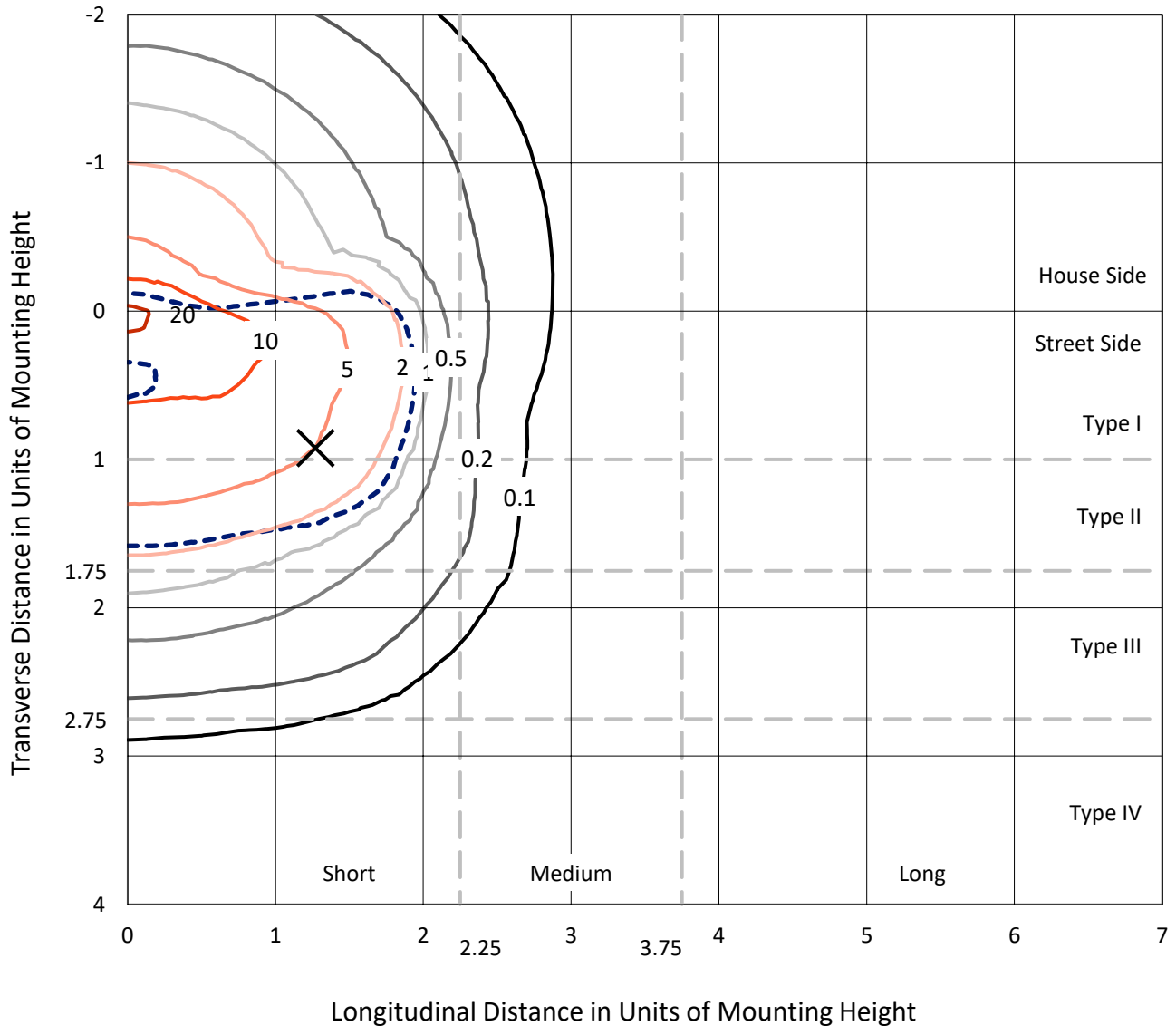
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

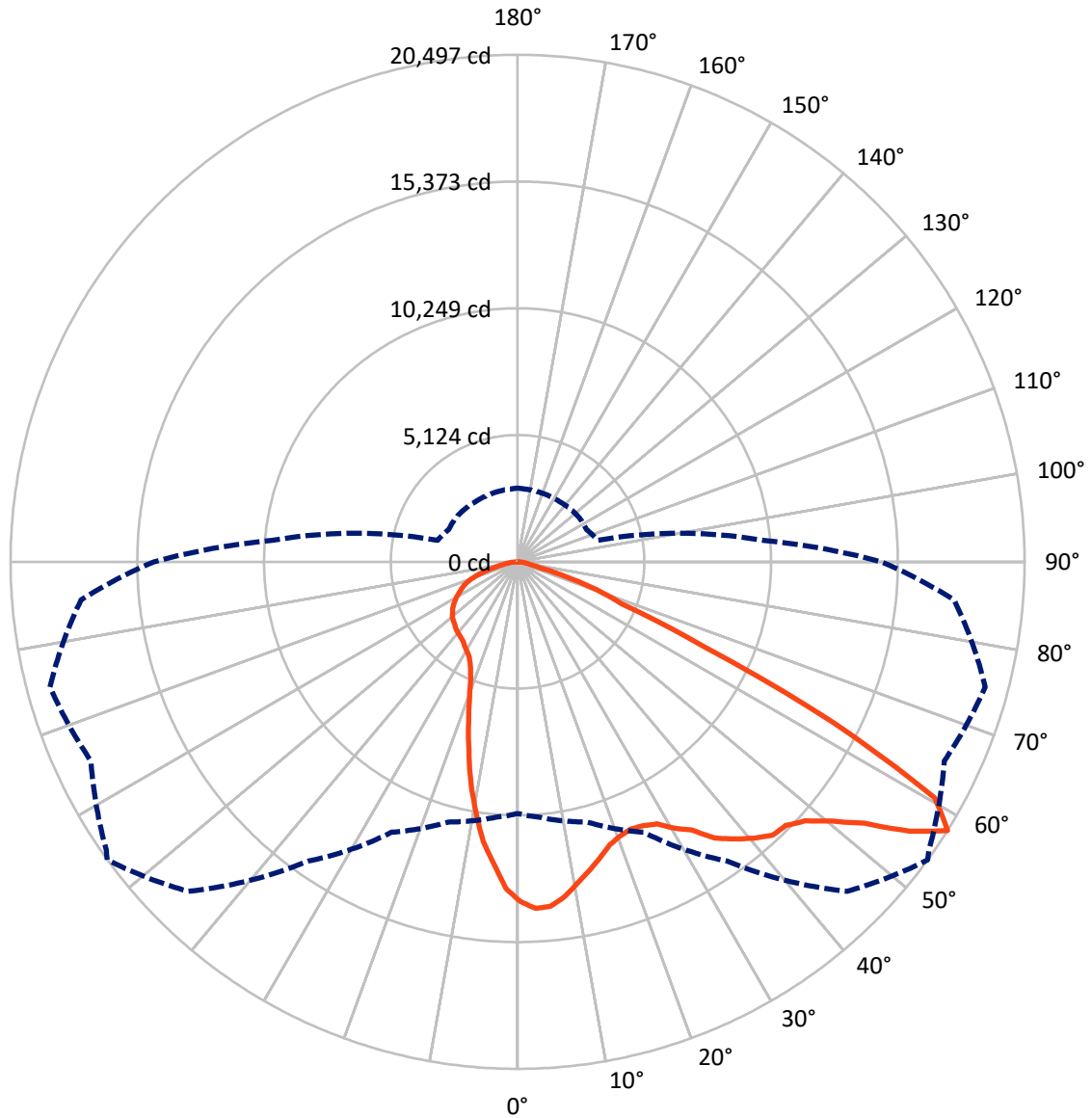
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 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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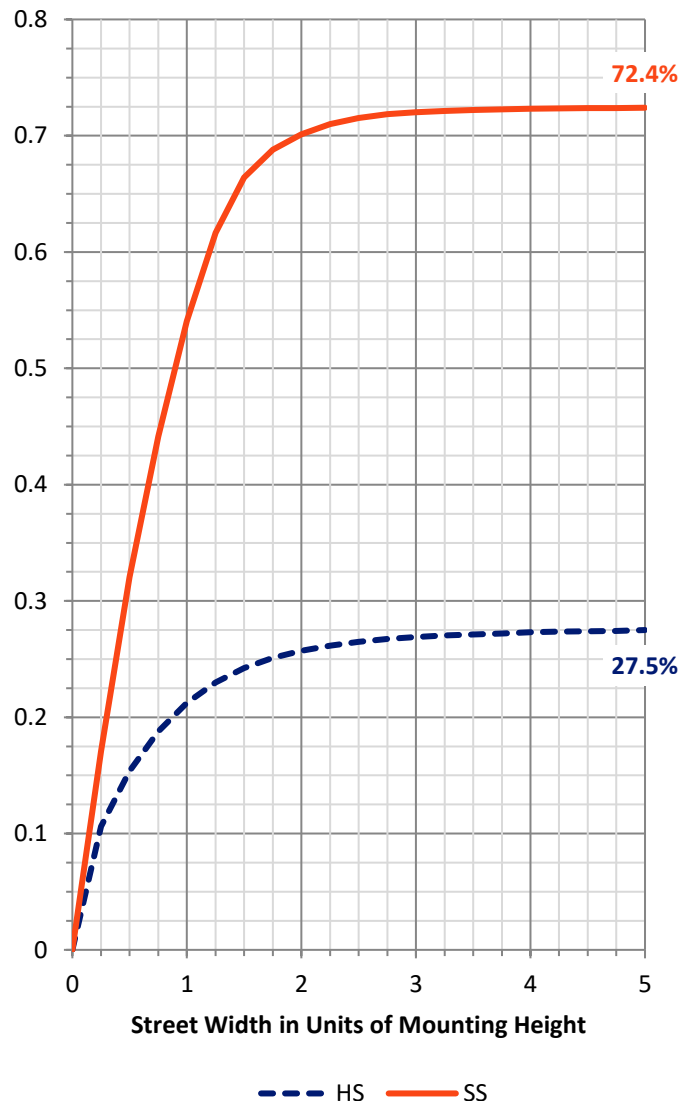
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9777.8	0.0	9777.8
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	25565.2	0.0	25565.2
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	35343.0	0.0	35343.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1184.7	3.4
10°-20°	2743.1	7.8
20°-30°	3854.0	10.9
30°-40°	5388.0	15.2
40°-50°	7294.3	20.6
50°-60°	8884.7	25.1
60°-70°	4627.6	13.1
70°-80°	1185.8	3.4
80°-90°	180.9	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°	35343.0	100.0
0°-180°	35343.0	100.0

**Coefficient of Utilization**



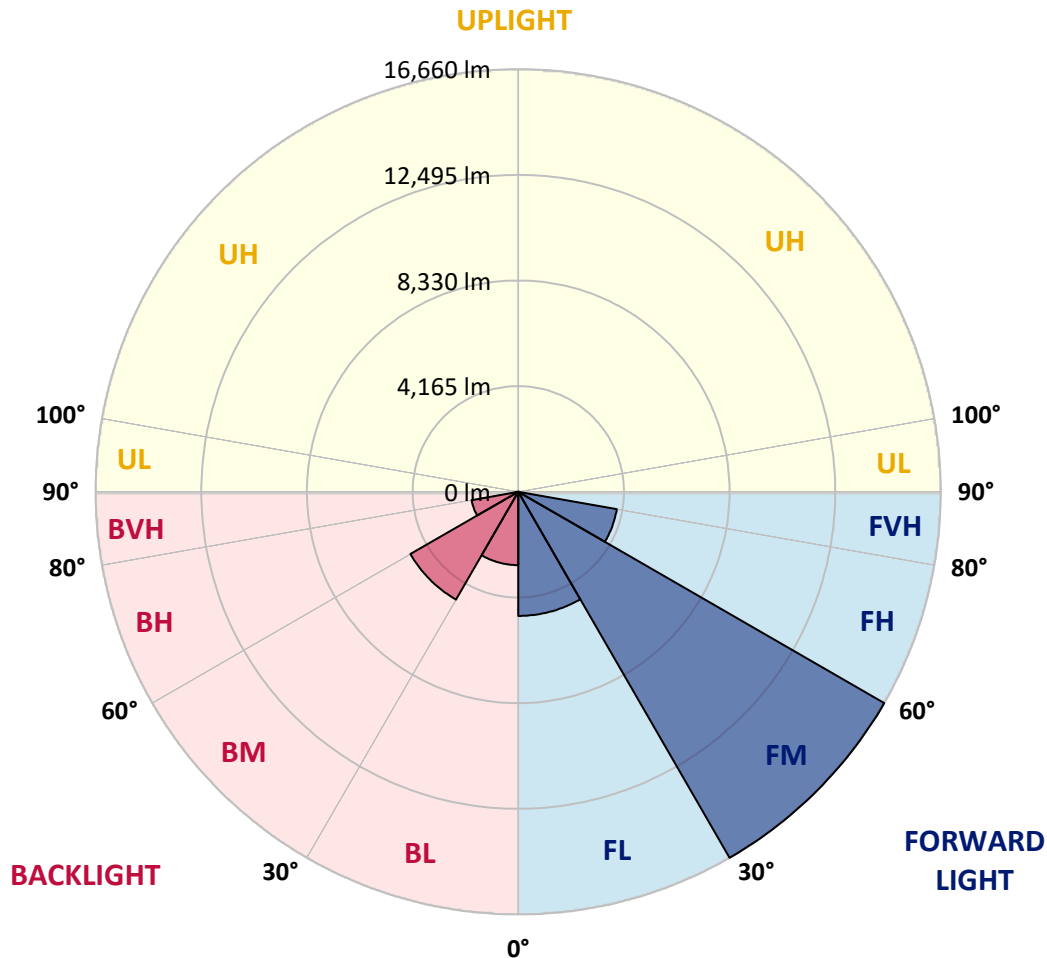
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4892.0	13.8			
FM (30°-60°)	16659.6	47.1			
FH (60°-80°)	3945.3	11.2			G2/5000
FVH (80°-90°)	68.3	0.2			G1/100
BL (0°-30°)	2889.9	8.2	B4/5000		
BM (30°-60°)	4907.4	13.9	B3/5000		
BH (60°-80°)	1868.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	112.5	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°	13737.4	13737.4	13737.4	13737.4	13737.4	13737.4	13737.4	13737.4	13737.4	13737.4	13737.4
2.5°	14128.1	14073.6	14082.7	14155.4	14064.5	14028.2	14028.2	13851.0	13864.6	13742.0	13710.2
5°	13801.0	13673.8	13760.1	13869.2	13887.3	13923.7	13982.7	13937.3	13810.1	13678.4	13464.9
7.5°	12947.0	13060.5	13092.3	13169.6	13333.1	13483.0	13669.3	13542.1	13537.5	13405.8	13278.6
10°	12197.4	12129.3	12301.9	12415.5	12688.0	12937.9	13224.1	13210.5	13278.6	13128.7	12910.6
12.5°	11452.4	11397.9	11479.6	11738.6	12120.2	12483.6	12824.3	12697.1	13060.5	13033.3	12565.4
15°	10661.9	10702.8	10820.9	11061.7	11561.4	11997.5	12429.1	12433.6	12756.2	12865.2	12238.3
17.5°	10107.7	10062.3	10212.2	10571.1	11016.3	11538.7	12029.3	12129.3	12624.4	12688.0	12138.4
20°	9694.3	9757.9	9953.3	10135.0	10648.3	11279.8	11834.0	11870.3	12597.2	12769.8	11979.4
22.5°	9594.4	9558.0	9621.6	9916.9	10339.4	11025.4	11729.5	11865.8	12592.6	12742.5	11679.5
25°	9489.9	9608.0	9603.5	9898.8	10207.7	10820.9	11815.8	11965.7	12833.4	12883.4	11720.4
27.5°	9726.1	9712.5	9839.7	9862.4	10244.0	10875.5	11997.5	12111.1	13233.2	13192.3	11752.2
30°	9962.4	9894.2	9971.4	10239.5	10416.6	11188.9	12497.2	12488.2	13751.0	13723.8	11852.2
32.5°	10253.1	10221.3	10271.3	10507.5	10807.3	11606.8	12919.7	13187.7	14278.0	14450.6	12197.4
35°	10307.6	10439.3	10557.5	10875.5	11302.5	12283.7	13714.7	13937.3	14886.7	15427.3	12856.1
37.5°	10652.9	10702.8	10979.9	11543.2	11933.9	13187.7	14219.0	14359.8	15441.0	16054.2	13551.2
40°	11020.8	11079.9	11497.8	12088.4	12624.4	13778.3	14691.4	14736.8	15618.1	16535.8	14005.4
42.5°	11520.5	11575.0	11988.4	12728.9	13446.7	14282.6	15109.3	15159.3	15604.5	17090.0	14727.7
45°	12038.4	12170.2	12656.2	13496.7	14141.7	14873.1	15204.7	15409.2	15731.7	17585.2	15313.8
47.5°	12765.3	12887.9	13287.7	14109.9	14864.0	15391.0	15645.4	15845.3	16036.1	18016.7	15690.8
50°	13537.5	13560.3	14046.3	14791.3	15345.6	15977.0	16467.6	16535.8	16435.8	18516.4	16331.4
52.5°	14105.4	14178.1	14555.1	15282.0	16108.8	16885.6	17557.9	17630.6	17435.3	18702.7	16549.4
55°	13165.0	13124.1	13737.4	14705.0	16622.1	18239.3	19216.0	19270.5	18162.1	19279.6	17262.6
57.5°	10175.9	10371.2	10893.6	12061.1	14768.6	18839.0	20497.1	20301.8	19034.3	19570.4	17716.9
60°	7395.7	7350.2	7700.0	8481.4	11129.9	16236.0	19379.6	19579.5	18321.1	17639.7	14609.6
62.5°	6023.7	5960.2	5987.4	6014.7	7182.2	10775.5	14346.2	14341.6	14109.9	12678.9	9853.3
65°	4815.4	4965.3	4978.9	5183.3	5333.2	6437.1	8313.3	8758.5	7627.4	6255.4	4538.3
67.5°	3629.7	3575.2	3756.9	4483.7	4765.4	4647.3	4538.3	4588.2	3261.7	2353.2	2216.9
70°	2139.7	2116.9	2335.0	3125.4	3925.0	3693.3	3420.7	3425.3	2239.6	1644.5	1830.7
72.5°	1172.0	1167.5	1212.9	1585.4	2230.5	2316.8	2053.3	2116.9	1335.6	1331.0	1431.0
75°	654.2	640.5	626.9	699.6	804.1	849.5	867.7	876.8	917.6	1026.7	1067.6
77.5°	240.8	231.7	231.7	268.0	340.7	427.0	540.6	549.7	649.6	745.0	785.9
80°	81.8	90.9	122.7	168.1	227.1	304.4	368.0	377.1	458.8	522.4	536.1
82.5°	50.0	54.5	81.8	118.1	163.5	213.5	272.6	277.1	340.7	381.6	399.8
85°	22.7	27.3	45.4	72.7	104.5	140.8	145.4	145.4	140.8	145.4	136.3
87.5°	0.0	0.0	9.1	9.1	9.1	13.6	18.2	13.6	22.7	27.3	27.3
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°	13737.4	13737.4	13737.4	13737.4	13737.4	13737.4	13737.4	13737.4	13737.4	13737.4	13737.4
2.5°	13614.8	13564.8	13410.3	13274.1	13233.2	13051.5	12783.4	12815.2	12619.9	12710.7	12615.3
5°	13428.5	13260.4	12865.2	12697.1	12256.5	12056.6	11920.3	11579.6	11420.6	11388.8	11252.5
7.5°	12951.5	12847.0	12351.9	11897.6	11429.7	11029.9	10516.6	10166.8	9916.9	9848.8	9648.9
10°	12574.5	12342.8	11656.8	10966.3	10298.5	9603.5	8935.7	8413.3	8158.9	7863.6	7763.6
12.5°	12202.0	11852.2	10925.4	10039.6	9176.5	8299.7	7491.1	6855.1	6300.9	6169.1	6123.7
15°	11970.3	11361.5	10271.3	9203.7	7977.2	6832.4	6023.7	5605.8	5265.1	5124.3	5224.2
17.5°	11665.9	10957.2	9644.4	8222.5	6873.3	5819.3	5142.4	4883.5	4760.9	4774.5	4733.6
20°	11284.3	10575.6	8822.1	7332.1	5887.5	5047.0	4660.9	4565.5	4583.7	4615.5	4601.9
22.5°	11011.7	10112.3	8227.0	6423.5	5087.9	4620.0	4461.0	4392.9	4451.9	4479.2	4456.5
25°	10802.8	9717.0	7504.7	5619.4	4624.6	4379.3	4306.6	4302.0	4392.9	4429.2	4406.5
27.5°	10612.0	9349.1	6786.9	5006.2	4315.7	4193.0	4170.3	4224.8	4283.9	4320.2	4352.0
30°	10498.4	9067.4	6114.6	4492.8	4161.2	4102.1	4061.3	4111.2	4143.0	4179.4	4161.2
32.5°	10607.4	8867.5	5465.0	4202.1	4034.0	3974.9	4029.5	3997.7	4052.2	4084.0	4034.0
35°	10948.1	8690.4	5001.6	4047.6	3888.6	3911.3	3920.4	3906.8	3929.5	3902.3	3961.3
37.5°	11284.3	8626.8	4574.6	3915.9	3820.5	3820.5	3811.4	3784.2	3829.6	3820.5	3847.7
40°	11711.3	8667.7	4211.2	3775.1	3756.9	3747.8	3711.5	3706.9	3688.8	3693.3	3702.4
42.5°	12083.8	8758.5	4002.2	3684.2	3697.8	3716.0	3647.9	3593.4	3616.1	3570.6	3570.6
45°	12479.1	8840.3	3815.9	3620.6	3607.0	3602.4	3547.9	3516.1	3498.0	3502.5	3543.4
47.5°	13101.4	8958.4	3675.1	3534.3	3543.4	3475.2	3461.6	3420.7	3438.9	3466.2	3470.7
50°	13542.1	9208.3	3566.1	3434.4	3466.2	3420.7	3339.0	3320.8	3320.8	3366.2	3357.1
52.5°	13851.0	9558.0	3461.6	3325.3	3339.0	3302.6	3275.4	3234.5	3207.2	3270.8	3302.6
55°	14795.9	10139.5	3434.4	3234.5	3229.9	3193.6	3143.6	3102.7	3089.1	3098.2	3161.8
57.5°	14705.0	9957.8	3348.0	3075.5	3066.4	3016.4	2966.4	2952.8	2948.3	2957.4	2975.5
60°	11938.5	7354.8	2989.2	2893.8	2880.1	2871.0	2821.1	2766.6	2739.3	2766.6	2743.8
62.5°	7899.9	4924.4	2634.8	2675.7	2684.8	2662.1	2580.3	2525.8	2534.9	2566.7	2516.7
65°	3879.5	2893.8	2389.5	2498.5	2507.6	2444.0	2366.8	2303.2	2271.4	2298.7	2275.9
67.5°	2216.9	2212.3	2189.6	2303.2	2298.7	2235.1	2112.4	2057.9	2003.4	2012.5	1998.8
70°	1880.7	1917.1	1962.5	2030.6	2026.1	1953.4	1808.0	1767.1	1689.9	1680.8	1658.1
72.5°	1481.0	1544.6	1644.5	1694.5	1653.6	1562.7	1467.3	1399.2	1331.0	1290.2	1303.8
75°	1099.4	1190.2	1244.7	1276.5	1212.9	1163.0	1085.7	1004.0	922.2	885.8	872.2
77.5°	799.5	826.8	876.8	899.5	858.6	808.6	763.2	681.4	604.2	554.2	540.6
80°	558.8	576.9	613.3	613.3	613.3	590.6	531.5	449.7	399.8	354.3	345.3
82.5°	390.7	408.9	445.2	427.0	422.5	395.2	358.9	295.3	240.8	209.0	199.9
85°	136.3	149.9	181.7	218.1	231.7	227.1	204.4	163.5	127.2	104.5	95.4
87.5°	31.8	31.8	36.3	31.8	31.8	36.3	31.8	31.8	31.8	22.7	18.2
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)