

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: P531426

Luminaire Tested: **GALN-SA6D-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531426  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-727-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34618 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

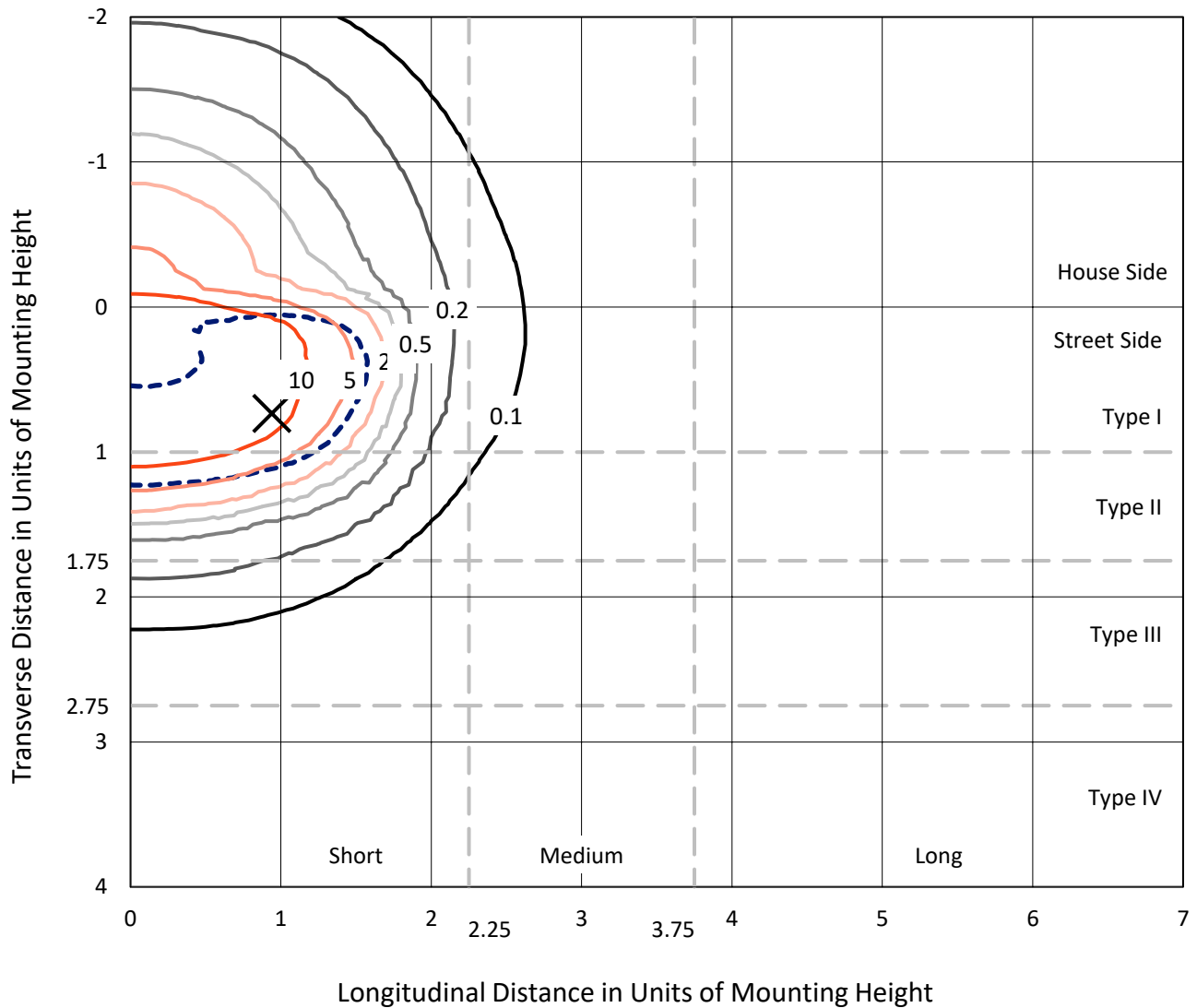
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

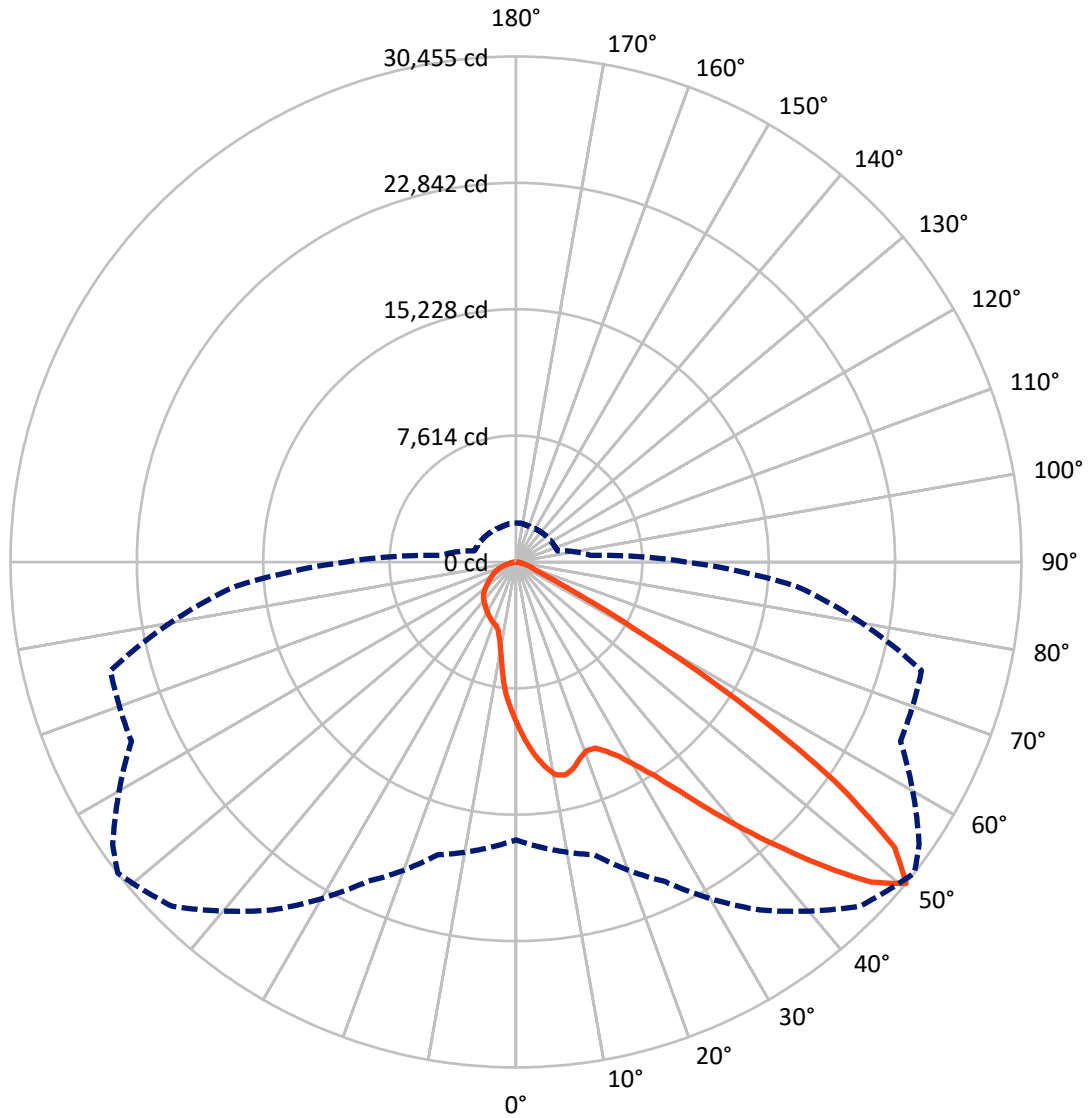
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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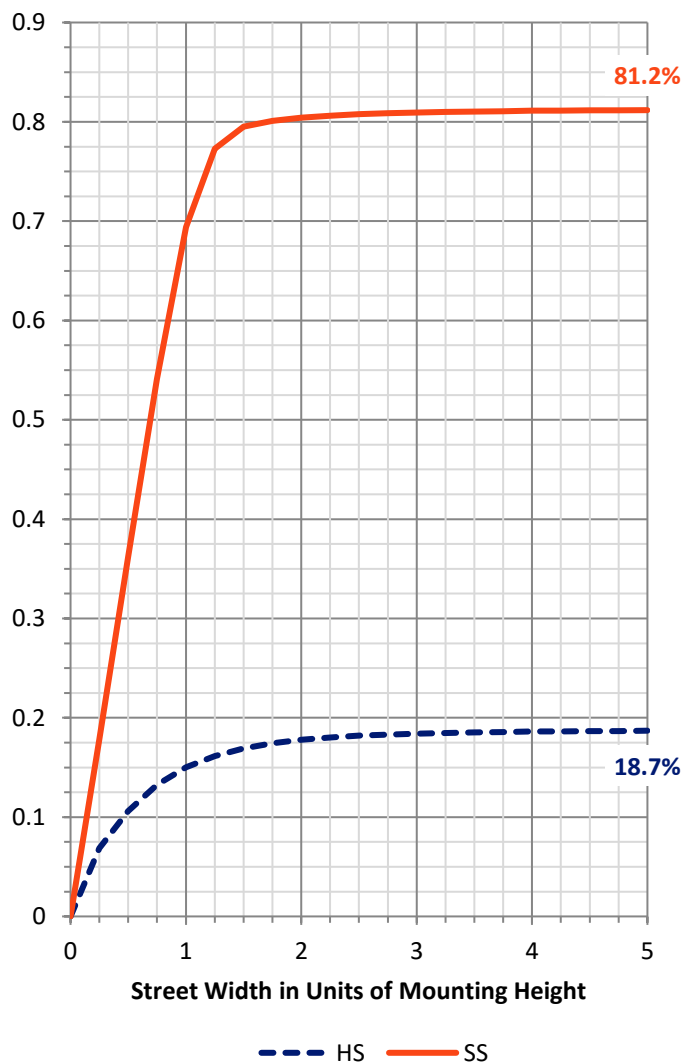
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6507.4	0.0	6507.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	28110.6	0.0	28110.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	34618.0	0.0	34618.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	899.4	2.6
10°-20°	2410.6	7.0
20°-30°	4060.7	11.7
30°-40°	6814.1	19.7
40°-50°	10423.9	30.1
50°-60°	7599.9	22.0
60°-70°	1691.3	4.9
70°-80°	610.1	1.8
80°-90°	108.0	0.3
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°	34618.0	100.0
0°-180°	34618.0	100.0

**Coefficient of Utilization**



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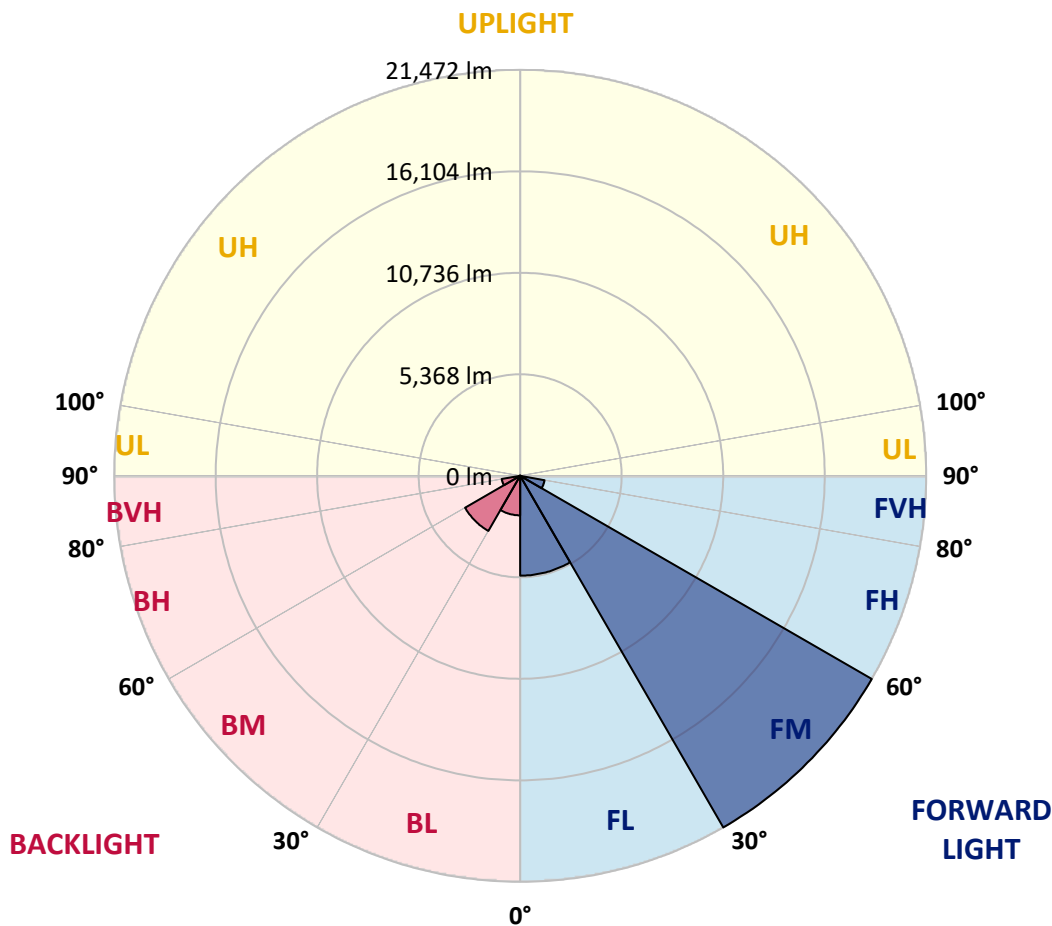
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5280.4	15.3			
FM (30°-60°)	21471.8	62.0			
FH (60°-80°)	1310.0	3.8			G1/1800
FVH (80°-90°)	48.4	0.1			G1/100
BL (0°-30°)	2090.3	6.0	B3/2500		
BM (30°-60°)	3366.1	9.7	B3/5000		
BH (60°-80°)	991.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	59.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9758.2	9758.2	9758.2	9758.2	9758.2	9758.2	9758.2	9758.2	9758.2	9758.2	9758.2
2.5°	11489.6	11268.5	11293.5	11135.0	10963.9	10913.9	10738.7	10571.8	10446.6	10179.6	9933.5
5°	12557.6	12490.9	12390.8	12265.6	12136.3	11819.2	11639.8	11431.2	10972.3	10559.3	10150.4
7.5°	12712.0	12699.5	12753.7	12753.7	12799.6	12678.6	12424.1	12278.1	11790.0	11118.3	10359.0
10°	11627.3	11664.8	11927.7	12269.8	12745.4	13075.0	13033.2	12995.7	12461.7	11543.8	10605.2
12.5°	10763.7	10680.2	10834.6	11126.6	11840.1	12636.9	13175.1	13179.3	13041.6	12223.9	10784.5
15°	10275.6	10334.0	10375.7	10513.4	11051.6	11973.6	12920.6	13200.1	13805.1	12703.7	11068.2
17.5°	10588.5	10392.4	10384.0	10417.4	10692.8	11385.3	12449.2	12928.9	14222.2	13321.1	11418.7
20°	10997.3	10993.1	10876.3	10834.6	10830.4	11447.9	12140.4	12791.3	14443.4	14122.1	11773.3
22.5°	11714.9	11714.9	11523.0	11431.2	11235.1	11739.9	12182.2	12624.4	14810.5	14672.8	11944.4
25°	12916.4	12720.3	12390.8	12165.5	12052.8	12232.2	12624.4	13020.7	15131.7	15256.9	12299.0
27.5°	14026.2	13717.4	13554.7	13166.7	13016.5	12912.3	13271.0	13671.5	15507.2	16166.4	12490.9
30°	15286.1	15231.9	14939.8	14439.2	14067.9	13876.0	14205.6	14601.9	16195.6	17096.7	12933.1
32.5°	17539.0	17046.7	16650.3	16037.1	15432.1	15023.3	15348.7	15611.5	17338.7	18068.8	13417.1
35°	19971.2	19812.7	19128.5	18022.9	17096.7	16729.6	16921.5	17117.6	18669.6	19554.0	14230.6
37.5°	22361.8	22144.8	21581.6	20651.3	19524.8	18778.0	18915.7	19145.2	20163.1	21556.6	15223.5
40°	24080.6	23813.6	23529.9	23392.2	22274.2	21252.0	21172.8	21231.2	22182.4	23434.0	16324.9
42.5°	24205.8	24535.4	24623.0	25177.8	24915.0	24076.4	23588.3	23600.8	24109.8	25290.5	17438.8
45°	23942.9	23638.4	24285.0	25799.5	26667.2	27059.4	26237.5	26133.2	25303.0	26366.9	17993.7
47.5°	21185.3	21268.7	22361.8	24756.5	27263.8	29016.1	28824.1	28477.9	25941.3	26329.3	17906.1
50°	16746.3	17251.1	18264.9	21247.8	25595.0	29324.8	30455.4	29654.4	25561.7	25294.7	17013.3
52.5°	11151.7	11360.3	12027.8	15878.5	20580.3	26212.5	28578.0	28761.6	25211.2	23938.8	15882.7
55°	4964.6	4948.0	5886.7	8293.9	12912.3	19946.2	23350.5	24468.6	23863.7	22557.8	14781.3
57.5°	2102.7	2173.6	2557.4	3583.7	6349.7	12036.1	15820.1	16800.5	18352.5	18523.6	11339.4
60°	1422.6	1431.0	1535.3	1793.9	2657.5	5653.0	8298.1	9474.5	10584.3	10509.2	6016.0
62.5°	1118.1	1147.3	1226.6	1330.9	1577.0	2565.8	3713.1	4368.1	4439.0	3733.9	2282.1
65°	955.4	959.6	1038.8	1126.4	1234.9	1493.6	1789.8	1823.2	1844.0	1777.3	1677.1
67.5°	788.5	796.8	859.4	959.6	1059.7	1143.1	1226.6	1268.3	1364.2	1552.0	1526.9
70°	625.8	638.3	692.5	776.0	867.8	917.8	1022.1	1059.7	1147.3	1293.3	1351.7
72.5°	475.6	479.8	525.7	584.1	667.5	717.6	805.2	846.9	905.3	1030.5	1084.7
75°	342.1	354.6	388.0	417.2	429.7	463.1	546.5	592.4	675.9	730.1	734.3
77.5°	179.4	187.7	196.1	196.1	237.8	300.4	354.6	379.6	438.1	479.8	458.9
80°	70.9	75.1	96.0	129.3	166.9	216.9	254.5	267.0	317.1	342.1	354.6
82.5°	41.7	45.9	62.6	91.8	121.0	154.4	183.6	196.1	229.5	258.7	267.0
85°	20.9	25.0	37.5	58.4	79.3	96.0	91.8	87.6	87.6	83.4	87.6
87.5°	8.3	8.3	12.5	12.5	12.5	16.7	20.9	20.9	20.9	25.0	25.0
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°	9758.2	9758.2	9758.2	9758.2	9758.2	9758.2	9758.2	9758.2	9758.2	9758.2	9758.2
2.5°	9770.8	9603.9	9449.5	9165.8	8857.1	8769.5	8410.7	8281.4	8189.6	8081.1	8047.7
5°	9820.8	9599.7	9103.2	8531.7	8076.9	7492.9	7109.0	6696.0	6395.6	6320.5	6299.7
7.5°	9925.1	9545.5	8690.2	7826.6	6896.3	6103.6	5498.7	5173.2	4885.4	4868.7	4839.5
10°	10041.9	9382.8	8239.6	6883.8	5694.7	4960.5	4597.5	4455.7	4384.7	4368.1	4359.7
12.5°	10137.9	9349.4	7734.8	5965.9	4843.7	4401.4	4293.0	4280.4	4309.6	4318.0	4334.7
15°	10179.6	9215.9	7125.7	5144.0	4313.8	4151.1	4197.0	4247.1	4267.9	4322.2	4280.4
17.5°	10258.9	9044.8	6374.8	4493.2	4017.6	4046.8	4126.1	4184.5	4217.9	4255.4	4201.2
20°	10300.6	8890.5	5669.7	4105.2	3913.3	3967.5	4076.0	4121.9	4163.6	4180.3	4117.7
22.5°	10263.0	8573.4	5048.1	3792.3	3813.2	3884.1	3980.1	4030.1	4005.1	3938.3	3900.8
25°	10162.9	8127.0	4401.4	3592.1	3671.3	3796.5	3871.6	3834.0	3788.1	3750.6	3738.1
27.5°	10158.7	7580.5	3934.2	3408.5	3550.3	3721.4	3696.4	3663.0	3683.9	3654.6	3621.3
30°	10179.6	7050.6	3550.3	3304.2	3462.7	3546.2	3575.4	3542.0	3567.0	3512.8	3529.5
32.5°	10071.1	6533.3	3300.0	3183.2	3358.4	3354.3	3450.2	3475.3	3416.8	3304.2	3320.9
35°	10117.0	6116.1	3087.3	3129.0	3241.6	3241.6	3316.7	3287.5	3133.2	3066.4	3083.1
37.5°	10434.1	5707.3	2983.0	3053.9	3129.0	3162.4	3137.3	3012.2	2974.6	2974.6	2983.0
40°	10734.5	5356.8	2920.4	3037.2	3024.7	3045.5	2862.0	2874.5	2874.5	2878.7	2857.8
42.5°	11001.5	5119.0	2870.3	2937.1	2957.9	2849.5	2736.8	2724.3	2753.5	2749.3	2732.6
45°	11097.4	4922.9	2799.4	2824.4	2841.1	2661.7	2607.5	2582.5	2615.8	2628.3	2645.0
47.5°	10730.3	4760.2	2720.1	2670.1	2636.7	2519.9	2448.9	2403.1	2444.8	2515.7	2532.4
50°	10258.9	4547.4	2595.0	2499.0	2428.1	2378.0	2328.0	2282.1	2311.3	2361.3	2348.8
52.5°	9562.2	4213.7	2436.4	2336.3	2215.3	2227.8	2181.9	2156.9	2173.6	2173.6	2161.1
55°	8569.2	3462.7	2169.4	2098.5	1998.4	2031.7	2040.1	2006.7	1973.3	2002.5	1977.5
57.5°	5849.1	2444.8	1935.8	1935.8	1835.7	1881.6	1877.4	1798.1	1718.9	1727.2	1710.5
60°	3383.5	1948.3	1785.6	1768.9	1664.6	1702.2	1710.5	1656.3	1535.3	1543.6	1526.9
62.5°	1923.3	1664.6	1560.3	1535.3	1514.4	1547.8	1547.8	1476.9	1372.6	1380.9	1364.2
65°	1635.4	1543.6	1393.4	1389.3	1380.9	1389.3	1355.9	1280.8	1189.0	1151.5	1155.6
67.5°	1485.2	1426.8	1280.8	1243.2	1218.2	1214.0	1151.5	1080.5	1038.8	1005.4	1001.3
70°	1301.7	1255.8	1147.3	1097.2	1072.2	1013.8	951.2	905.3	846.9	830.2	846.9
72.5°	1030.5	1026.3	984.6	930.3	876.1	830.2	776.0	713.4	659.2	646.7	617.5
75°	713.4	721.8	730.1	721.8	675.9	617.5	554.9	504.8	438.1	400.5	392.2
77.5°	467.3	479.8	492.3	475.6	446.4	392.2	350.4	287.9	237.8	208.6	204.4
80°	342.1	358.8	367.1	354.6	321.2	279.5	233.6	183.6	146.0	121.0	121.0
82.5°	262.8	279.5	287.9	267.0	233.6	200.3	166.9	129.3	100.1	79.3	75.1
85°	91.8	87.6	104.3	108.5	129.3	121.0	100.1	75.1	58.4	41.7	37.5
87.5°	25.0	25.0	29.2	29.2	25.0	20.9	20.9	20.9	16.7	12.5	12.5
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)