

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: P529320

Luminaire Tested: **GALN-SA4C-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529320  
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-SA4C-727-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1050mA 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: 20988 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

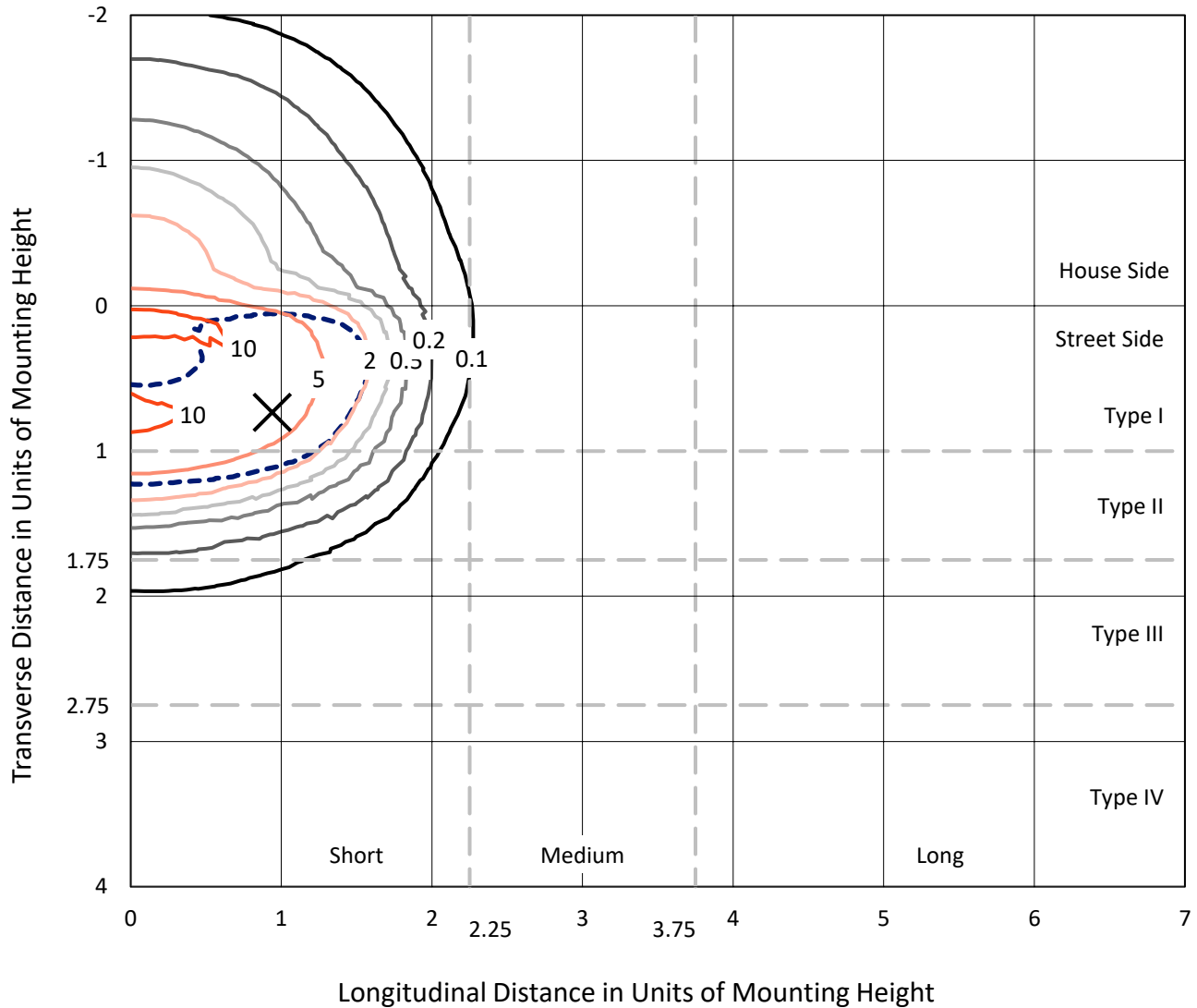
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

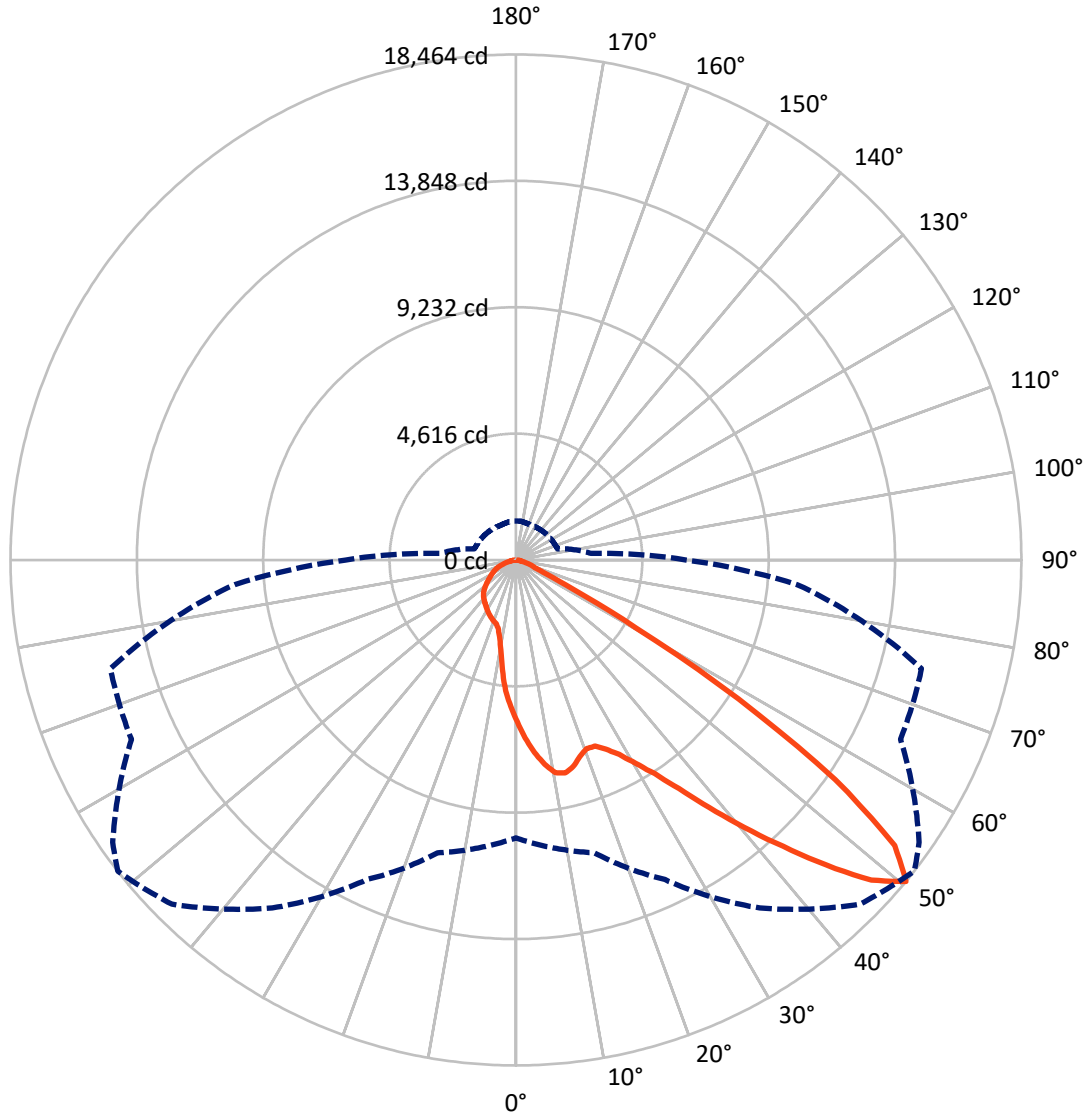
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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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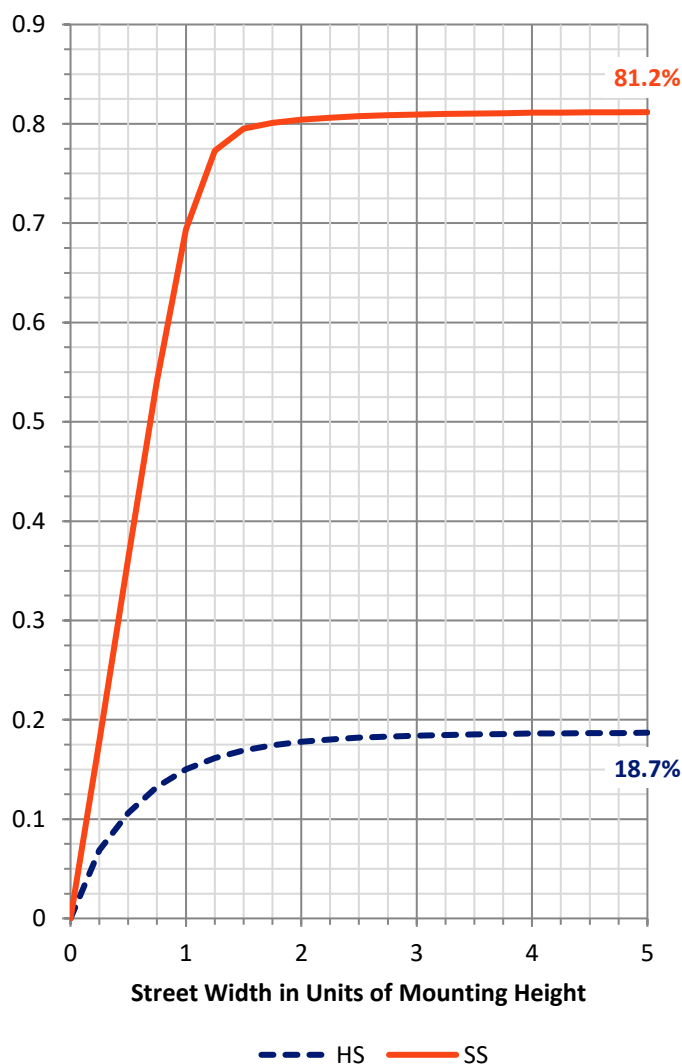
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3945.2	0.0	3945.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	17042.8	0.0	17042.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	20988.0	0.0	20988.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	545.3	2.6
10°-20°	1461.5	7.0
20°-30°	2461.9	11.7
30°-40°	4131.2	19.7
40°-50°	6319.8	30.1
50°-60°	4607.6	22.0
60°-70°	1025.4	4.9
70°-80°	369.9	1.8
80°-90°	65.5	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°	20988.0	100.0
0°-180°	20988.0	100.0

**Coefficient of Utilization**



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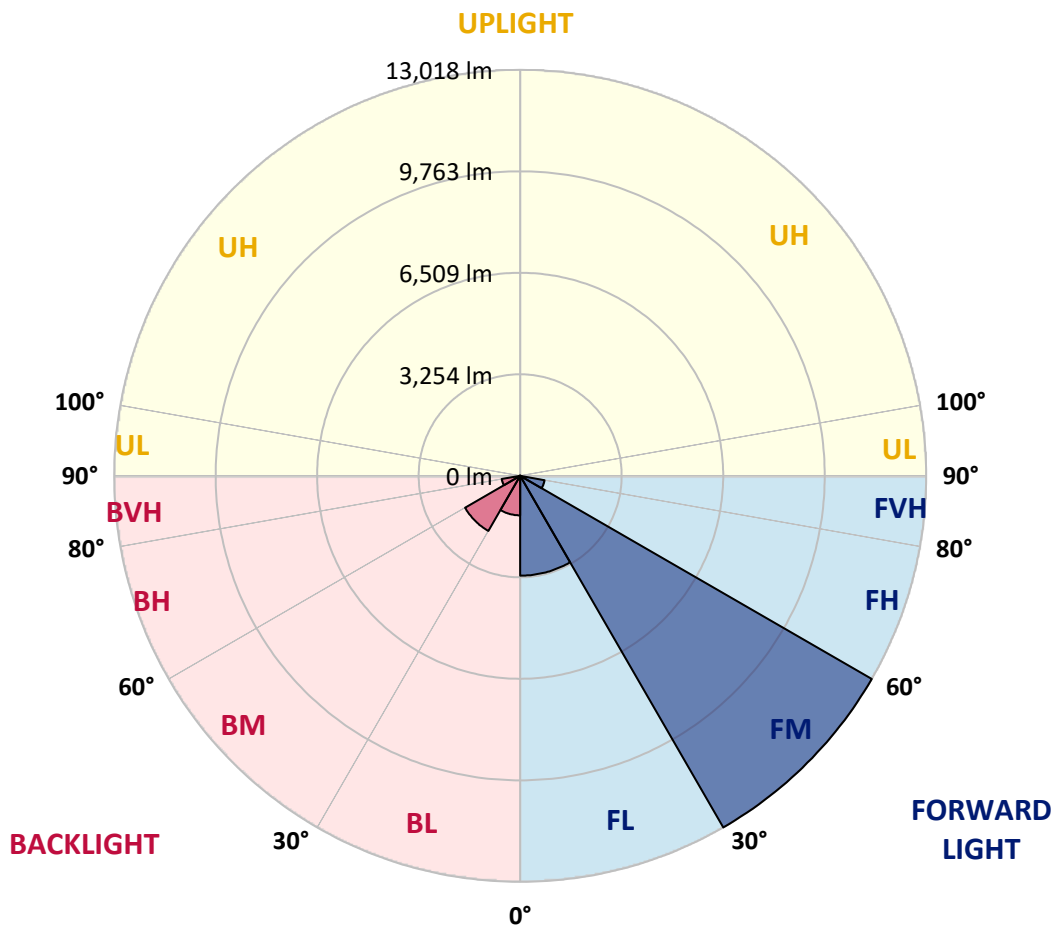
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3201.4	15.3			
FM (30°-60°)	13017.8	62.0			
FH (60°-80°)	794.2	3.8			G1/1800
FVH (80°-90°)	29.3	0.1			G1/100
BL (0°-30°)	1267.3	6.0	B3/2500		
BM (30°-60°)	2040.8	9.7	B2/2500		
BH (60°-80°)	601.1	2.9	B2/1000		G2/1000
BVH (80°-90°)	36.1	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°	5916.2	5916.2	5916.2	5916.2	5916.2	5916.2	5916.2	5916.2	5916.2	5916.2	5916.2
2.5°	6965.9	6831.8	6847.0	6750.9	6647.2	6616.8	6510.6	6409.4	6333.5	6171.6	6022.4
5°	7613.4	7572.9	7512.2	7436.3	7357.9	7165.7	7056.9	6930.4	6652.2	6401.8	6153.9
7.5°	7707.0	7699.4	7732.2	7732.2	7760.1	7686.7	7532.4	7443.9	7148.0	6740.7	6280.4
10°	7049.3	7072.1	7231.4	7438.8	7727.2	7927.0	7901.7	7879.0	7555.2	6998.7	6429.6
12.5°	6525.7	6475.2	6568.7	6745.8	7178.3	7661.4	7987.7	7990.2	7906.8	7411.0	6538.4
15°	6229.8	6265.2	6290.5	6374.0	6700.3	7259.3	7833.4	8002.9	8369.6	7701.9	6710.4
17.5°	6419.5	6300.6	6295.6	6315.8	6482.7	6902.6	7547.6	7838.5	8622.6	8076.2	6922.9
20°	6667.4	6664.9	6594.0	6568.7	6566.2	6940.6	7360.4	7755.0	8756.6	8561.9	7137.8
22.5°	7102.4	7102.4	6986.1	6930.4	6811.6	7117.6	7385.7	7653.8	8979.2	8895.8	7241.6
25°	7830.9	7712.0	7512.2	7375.6	7307.3	7416.1	7653.8	7894.1	9174.0	9249.9	7456.5
27.5°	8503.7	8316.5	8217.9	7982.7	7891.6	7828.4	8045.9	8288.7	9401.6	9801.3	7572.9
30°	9267.6	9234.7	9057.6	8754.1	8529.0	8412.6	8612.5	8852.8	9819.0	10365.3	7841.0
32.5°	10633.4	10335.0	10094.7	9722.9	9356.1	9108.2	9305.5	9464.9	10512.0	10954.7	8134.4
35°	12108.0	12011.9	11597.1	10926.8	10365.3	10142.7	10259.1	10378.0	11318.9	11855.1	8627.6
37.5°	13557.4	13425.8	13084.4	12520.3	11837.4	11384.6	11468.1	11607.2	12224.4	13069.2	9229.6
40°	14599.5	14437.6	14265.6	14182.1	13504.2	12884.6	12836.5	12871.9	13448.6	14207.4	9897.4
42.5°	14675.3	14875.2	14928.3	15264.7	15105.3	14596.9	14301.0	14308.6	14617.2	15333.0	10572.7
45°	14516.0	14331.3	14723.4	15641.6	16167.7	16405.4	15907.1	15843.9	15340.6	15985.5	10909.1
47.5°	12844.1	12894.7	13557.4	15009.2	16529.4	17591.7	17475.3	17265.4	15727.6	15962.8	10856.0
50°	10152.8	10458.9	11073.5	12882.0	15517.6	17778.9	18464.3	17978.7	15497.4	15335.5	10314.7
52.5°	6761.0	6887.4	7292.1	9626.7	12477.3	15892.0	17326.1	17437.4	15284.9	14513.5	9629.3
55°	3009.9	2999.8	3568.9	5028.4	7828.4	12092.9	14156.8	14834.7	14467.9	13676.2	8961.5
57.5°	1274.8	1317.8	1550.5	2172.7	3849.7	7297.2	9591.3	10185.7	11126.6	11230.4	6874.8
60°	862.5	867.6	930.8	1087.6	1611.2	3427.3	5030.9	5744.2	6417.0	6371.5	3647.3
62.5°	677.9	695.6	743.6	806.9	956.1	1555.6	2251.1	2648.2	2691.2	2263.8	1383.6
65°	579.2	581.8	629.8	682.9	748.7	905.5	1085.1	1105.3	1118.0	1077.5	1016.8
67.5°	478.0	483.1	521.0	581.8	642.5	693.0	743.6	768.9	827.1	940.9	925.7
70°	379.4	387.0	419.9	470.5	526.1	556.5	619.7	642.5	695.6	784.1	819.5
72.5°	288.3	290.9	318.7	354.1	404.7	435.0	488.2	513.5	548.9	624.8	657.6
75°	207.4	215.0	235.2	252.9	260.5	280.8	331.3	359.2	409.8	442.6	445.2
77.5°	108.8	113.8	118.9	118.9	144.2	182.1	215.0	230.2	265.6	290.9	278.2
80°	43.0	45.5	58.2	78.4	101.2	131.5	154.3	161.9	192.2	207.4	215.0
82.5°	25.3	27.8	37.9	55.6	73.4	93.6	111.3	118.9	139.1	156.8	161.9
85°	12.6	15.2	22.8	35.4	48.1	58.2	55.6	53.1	53.1	50.6	53.1
87.5°	5.1	5.1	7.6	7.6	7.6	10.1	12.6	12.6	12.6	15.2	15.2
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°	5916.2	5916.2	5916.2	5916.2	5916.2	5916.2	5916.2	5916.2	5916.2	5916.2	5916.2
2.5°	5923.8	5822.6	5729.0	5557.0	5369.8	5316.7	5099.2	5020.8	4965.1	4899.4	4879.1
5°	5954.1	5820.1	5519.1	5172.5	4896.8	4542.7	4310.0	4059.6	3877.5	3832.0	3819.3
7.5°	6017.3	5787.2	5268.7	4745.1	4181.0	3700.5	3333.7	3136.4	2961.9	2951.8	2934.1
10°	6088.2	5688.5	4995.5	4173.4	3452.6	3007.4	2787.4	2701.4	2658.4	2648.2	2643.2
12.5°	6146.3	5668.3	4689.4	3617.0	2936.6	2668.5	2602.7	2595.1	2612.8	2617.9	2628.0
15°	6171.6	5587.4	4320.1	3118.7	2615.4	2516.7	2544.5	2574.9	2587.5	2620.4	2595.1
17.5°	6219.7	5483.6	3864.9	2724.1	2435.8	2453.5	2501.5	2536.9	2557.2	2579.9	2547.1
20°	6245.0	5390.1	3437.4	2488.9	2372.5	2405.4	2471.2	2499.0	2524.3	2534.4	2496.5
22.5°	6222.2	5197.8	3060.5	2299.2	2311.8	2354.8	2413.0	2443.4	2428.2	2387.7	2365.0
25°	6161.5	4927.2	2668.5	2177.8	2225.8	2301.7	2347.2	2324.5	2296.7	2273.9	2266.3
27.5°	6159.0	4595.8	2385.2	2066.5	2152.5	2256.2	2241.0	2220.8	2233.4	2215.7	2195.5
30°	6171.6	4274.6	2152.5	2003.3	2099.4	2150.0	2167.7	2147.4	2162.6	2129.7	2139.8
32.5°	6105.9	3961.0	2000.7	1929.9	2036.1	2033.6	2091.8	2107.0	2071.5	2003.3	2013.4
35°	6133.7	3708.0	1871.7	1897.0	1965.3	1965.3	2010.8	1993.1	1899.5	1859.1	1869.2
37.5°	6325.9	3460.2	1808.5	1851.5	1897.0	1917.3	1902.1	1826.2	1803.4	1803.4	1808.5
40°	6508.0	3247.7	1770.6	1841.4	1833.8	1846.4	1735.1	1742.7	1742.7	1745.3	1732.6
42.5°	6669.9	3103.5	1740.2	1780.7	1793.3	1727.6	1659.3	1651.7	1669.4	1666.8	1656.7
45°	6728.1	2984.6	1697.2	1712.4	1722.5	1613.7	1580.8	1565.7	1585.9	1593.5	1603.6
47.5°	6505.5	2886.0	1649.1	1618.8	1598.6	1527.7	1484.7	1456.9	1482.2	1525.2	1535.3
50°	6219.7	2757.0	1573.3	1515.1	1472.1	1441.7	1411.4	1383.6	1401.3	1431.6	1424.0
52.5°	5797.3	2554.7	1477.1	1416.4	1343.1	1350.7	1322.9	1307.7	1317.8	1317.8	1310.2
55°	5195.3	2099.4	1315.3	1272.3	1211.6	1231.8	1236.9	1216.6	1196.4	1214.1	1198.9
57.5°	3546.2	1482.2	1173.6	1173.6	1112.9	1140.7	1138.2	1090.2	1042.1	1047.2	1037.0
60°	2051.3	1181.2	1082.6	1072.4	1009.2	1032.0	1037.0	1004.2	930.8	935.9	925.7
62.5°	1166.0	1009.2	946.0	930.8	918.2	938.4	938.4	895.4	832.2	837.2	827.1
65°	991.5	935.9	844.8	842.3	837.2	842.3	822.0	776.5	720.9	698.1	700.6
67.5°	900.5	865.0	776.5	753.7	738.6	736.0	698.1	655.1	629.8	609.6	607.0
70°	789.2	761.3	695.6	665.2	650.0	614.6	576.7	548.9	513.5	503.3	513.5
72.5°	624.8	622.2	596.9	564.0	531.2	503.3	470.5	432.5	399.6	392.1	374.3
75°	432.5	437.6	442.6	437.6	409.8	374.3	336.4	306.1	265.6	242.8	237.8
77.5°	283.3	290.9	298.5	288.3	270.6	237.8	212.5	174.5	144.2	126.5	123.9
80°	207.4	217.5	222.6	215.0	194.8	169.5	141.6	111.3	88.5	73.4	73.4
82.5°	159.3	169.5	174.5	161.9	141.6	121.4	101.2	78.4	60.7	48.1	45.5
85°	55.6	53.1	63.2	65.8	78.4	73.4	60.7	45.5	35.4	25.3	22.8
87.5°	15.2	15.2	17.7	17.7	15.2	12.6	12.6	12.6	10.1	7.6	7.6
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)