

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: P529606

Luminaire Tested: **GALN-SA4D-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529606  
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-SA4D-735-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 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: 25724 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

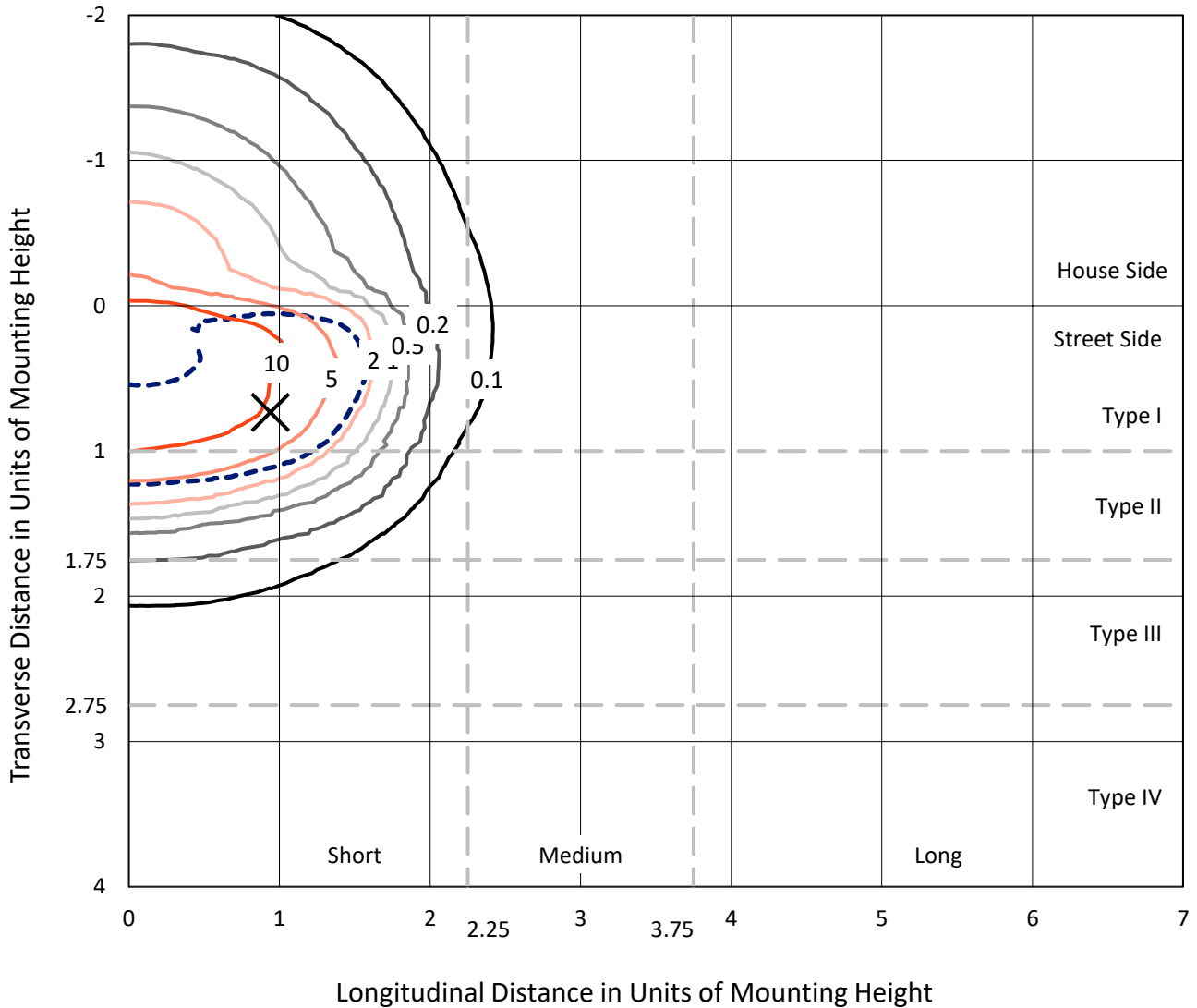
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

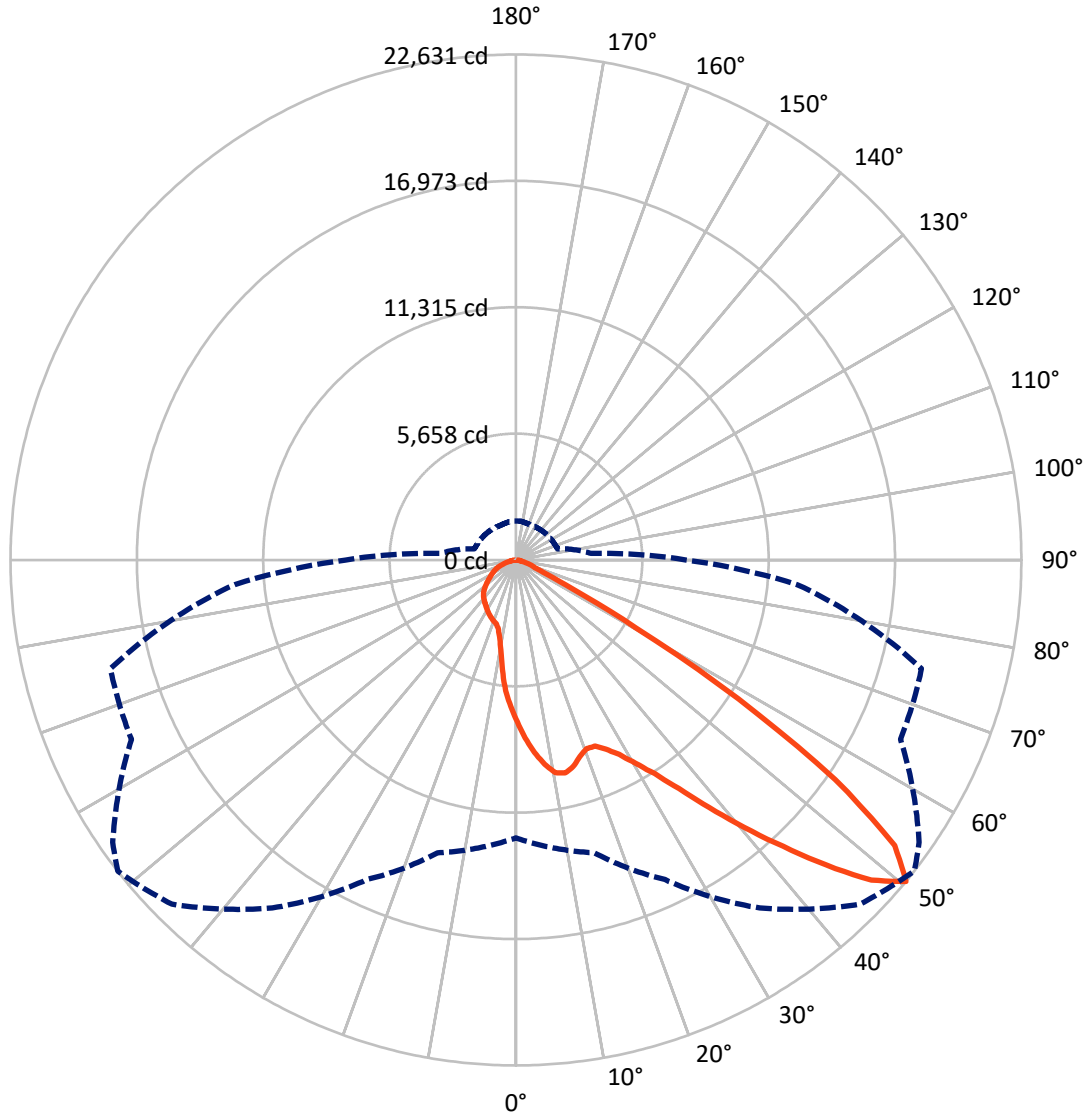
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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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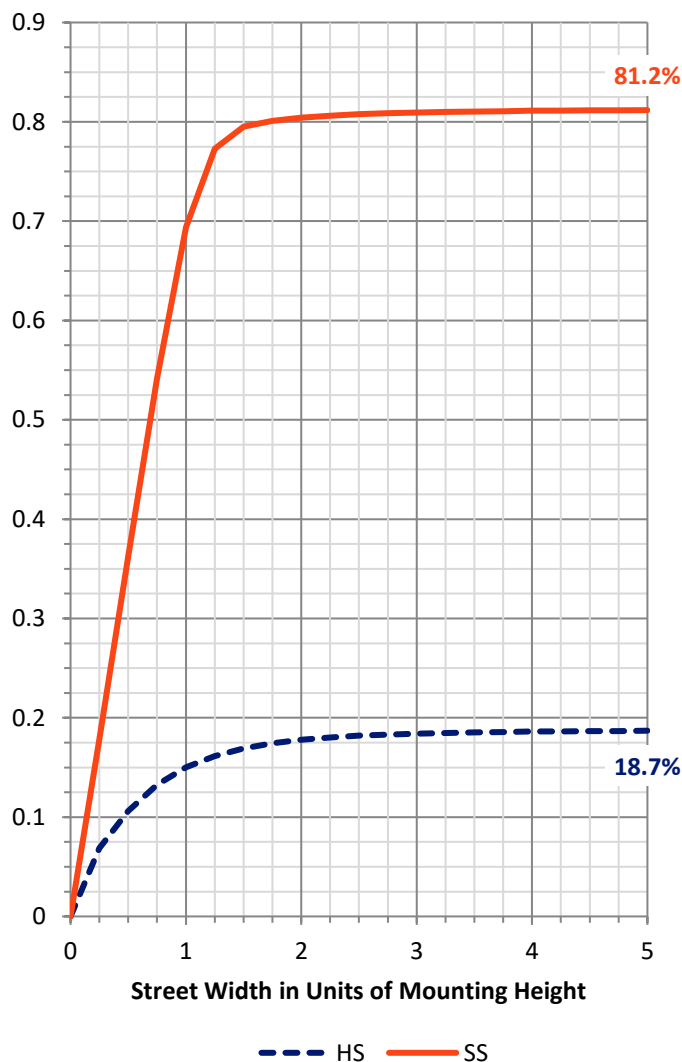
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4835.5	0.0	4835.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	20888.5	0.0	20888.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	25724.0	0.0	25724.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	668.3	2.6
10°-20°	1791.3	7.0
20°-30°	3017.4	11.7
30°-40°	5063.4	19.7
40°-50°	7745.8	30.1
50°-60°	5647.3	22.0
60°-70°	1256.8	4.9
70°-80°	453.3	1.8
80°-90°	80.2	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°	25724.0	100.0
0°-180°	25724.0	100.0

**Coefficient of Utilization**

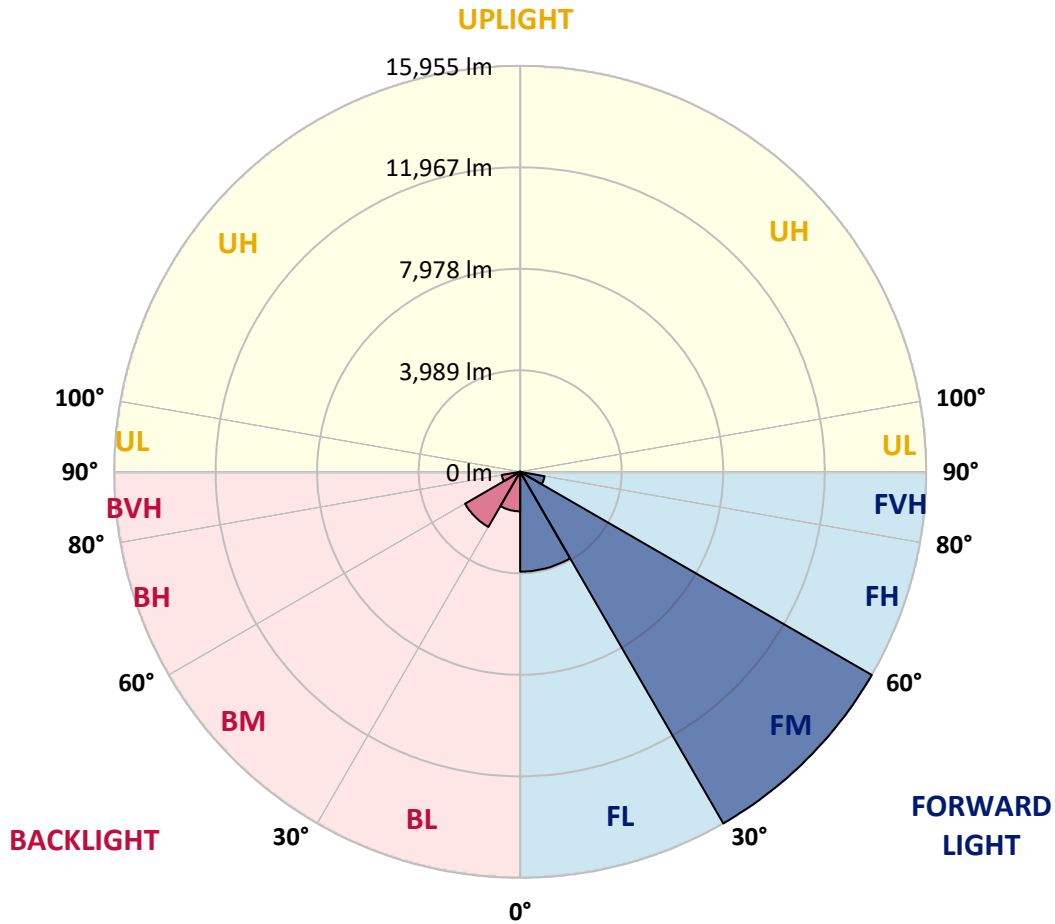


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3923.8	15.3			
FM (30°-60°)	15955.3	62.0			
FH (60°-80°)	973.4	3.8			G1/1800
FVH (80°-90°)	36.0	0.1			G1/100
BL (0°-30°)	1553.3	6.0	B3/2500		
BM (30°-60°)	2501.3	9.7	B3/5000		
BH (60°-80°)	736.7	2.9	B2/1000		G2/1000
BVH (80°-90°)	44.3	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°	7251.2	7251.2	7251.2	7251.2	7251.2	7251.2	7251.2	7251.2	7251.2	7251.2	7251.2
2.5°	8537.7	8373.4	8392.0	8274.2	8147.1	8109.9	7979.7	7855.7	7762.7	7564.3	7381.4
5°	9331.3	9281.7	9207.3	9114.3	9018.2	8782.6	8649.3	8494.3	8153.3	7846.4	7542.6
7.5°	9446.1	9436.8	9477.1	9477.1	9511.2	9421.2	9232.1	9123.6	8760.9	8261.8	7697.6
10°	8640.0	8667.9	8863.2	9117.4	9470.9	9715.8	9684.8	9656.9	9260.0	8578.0	7880.5
12.5°	7998.3	7936.3	8051.0	8268.0	8798.1	9390.2	9790.2	9793.3	9691.0	9083.3	8013.8
15°	7635.6	7679.0	7710.0	7812.3	8212.2	8897.3	9601.1	9808.8	10258.3	9439.9	8224.6
17.5°	7868.1	7722.4	7716.2	7741.0	7945.6	8460.2	9250.7	9607.3	10568.3	9898.7	8485.0
20°	8171.9	8168.8	8082.0	8051.0	8047.9	8506.7	9021.3	9505.0	10732.6	10493.9	8748.5
22.5°	8705.1	8705.1	8562.5	8494.3	8348.6	8723.7	9052.3	9380.9	11005.4	10903.1	8875.6
25°	9598.0	9452.3	9207.3	9039.9	8956.2	9089.5	9380.9	9675.5	11244.1	11337.1	9139.1
27.5°	10422.6	10193.2	10072.3	9784.0	9672.4	9594.9	9861.5	10159.1	11523.1	12012.9	9281.7
30°	11358.8	11318.5	11101.5	10729.5	10453.6	10311.0	10555.9	10850.4	12034.6	12704.3	9610.4
32.5°	13032.9	12667.1	12372.6	11916.8	11467.3	11163.5	11405.3	11600.6	12884.1	13426.6	9970.0
35°	14840.3	14722.4	14214.0	13392.5	12704.3	12431.5	12574.1	12719.8	13873.0	14530.2	10574.5
37.5°	16616.6	16455.4	16036.9	15345.6	14508.5	13953.6	14055.9	14226.4	14982.9	16018.3	11312.3
40°	17893.9	17695.5	17484.6	17382.3	16551.5	15792.0	15733.1	15776.5	16483.3	17413.3	12130.8
42.5°	17986.9	18231.8	18296.9	18709.2	18513.9	17890.8	17528.1	17537.4	17915.6	18792.9	12958.5
45°	17791.6	17565.3	18045.8	19171.1	19815.9	20107.3	19496.6	19419.1	18802.2	19592.7	13370.8
47.5°	15742.4	15804.4	16616.6	18396.1	20259.3	21561.3	21418.7	21161.4	19276.5	19564.8	13305.7
50°	12443.9	12819.0	13572.3	15788.9	19019.2	21790.7	22630.8	22035.6	18994.4	18796.0	12642.3
52.5°	8286.6	8441.6	8937.6	11799.0	15292.9	19478.0	21235.8	21372.2	18734.0	17788.5	11802.1
55°	3689.1	3676.7	4374.3	6163.0	9594.9	14821.7	17351.3	18182.2	17732.7	16762.3	10983.7
57.5°	1562.5	1615.2	1900.4	2663.0	4718.4	8943.8	11755.6	12484.2	13637.4	13764.5	8426.1
60°	1057.1	1063.3	1140.8	1333.0	1974.8	4200.7	6166.1	7040.4	7865.0	7809.2	4470.4
62.5°	830.8	852.5	911.4	988.9	1171.8	1906.6	2759.1	3245.8	3298.5	2774.6	1695.8
65°	709.9	713.0	771.9	837.0	917.6	1109.8	1329.9	1354.8	1370.3	1320.6	1246.2
67.5°	585.9	592.1	638.6	713.0	787.4	849.4	911.4	942.4	1013.7	1153.2	1134.6
70°	465.0	474.3	514.6	576.6	644.8	682.0	759.5	787.4	852.5	961.0	1004.4
72.5°	353.4	356.5	390.6	434.0	496.0	533.2	598.3	629.3	672.7	765.7	806.0
75°	254.2	263.5	288.3	310.0	319.3	344.1	406.1	440.2	502.2	542.5	545.6
77.5°	133.3	139.5	145.7	145.7	176.7	223.2	263.5	282.1	325.5	356.5	341.0
80°	52.7	55.8	71.3	96.1	124.0	161.2	189.1	198.4	235.6	254.2	263.5
82.5°	31.0	34.1	46.5	68.2	89.9	114.7	136.4	145.7	170.5	192.2	198.4
85°	15.5	18.6	27.9	43.4	58.9	71.3	68.2	65.1	65.1	62.0	65.1
87.5°	6.2	6.2	9.3	9.3	9.3	12.4	15.5	15.5	15.5	18.6	18.6
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°	7251.2	7251.2	7251.2	7251.2	7251.2	7251.2	7251.2	7251.2	7251.2	7251.2	7251.2
2.5°	7260.5	7136.5	7021.8	6811.0	6581.5	6516.4	6249.8	6153.7	6085.5	6004.9	5980.1
5°	7297.7	7133.4	6764.5	6339.7	6001.8	5567.8	5282.6	4975.7	4752.5	4696.7	4681.2
7.5°	7375.2	7093.1	6457.5	5815.8	5124.5	4535.5	4086.0	3844.1	3630.2	3617.8	3596.1
10°	7462.0	6972.2	6122.7	5115.2	4231.7	3686.0	3416.3	3310.9	3258.2	3245.8	3239.6
12.5°	7533.3	6947.4	5747.6	4433.2	3599.2	3270.6	3190.0	3180.7	3202.4	3208.6	3221.0
15°	7564.3	6848.2	5295.0	3822.4	3205.5	3084.6	3118.7	3155.9	3171.4	3211.7	3180.7
17.5°	7623.2	6721.0	4737.0	3338.8	2985.4	3007.1	3066.0	3109.4	3134.2	3162.1	3121.8
20°	7654.2	6606.3	4213.1	3050.5	2907.9	2948.2	3028.8	3062.9	3093.9	3106.3	3059.8
22.5°	7626.3	6370.7	3751.1	2818.0	2833.5	2886.2	2957.5	2994.7	2976.1	2926.5	2898.6
25°	7551.9	6039.0	3270.6	2669.2	2728.1	2821.1	2876.9	2849.0	2814.9	2787.0	2777.7
27.5°	7548.8	5632.9	2923.4	2532.8	2638.2	2765.3	2746.7	2721.9	2737.4	2715.7	2690.9
30°	7564.3	5239.2	2638.2	2455.3	2573.1	2635.1	2656.8	2632.0	2650.6	2610.3	2622.7
32.5°	7483.7	4854.8	2452.2	2365.4	2495.6	2492.5	2563.8	2582.4	2539.0	2455.3	2467.7
35°	7517.8	4544.8	2294.1	2325.1	2408.8	2408.8	2464.6	2442.9	2328.2	2278.6	2291.0
37.5°	7753.4	4241.0	2216.6	2269.3	2325.1	2349.9	2331.3	2238.3	2210.4	2210.4	2216.6
40°	7976.6	3980.5	2170.1	2256.9	2247.6	2263.1	2126.7	2136.0	2136.0	2139.1	2123.6
42.5°	8175.0	3803.8	2132.9	2182.5	2198.0	2117.4	2033.7	2024.4	2046.1	2043.0	2030.6
45°	8246.3	3658.1	2080.2	2098.8	2111.2	1977.9	1937.6	1919.0	1943.8	1953.1	1965.5
47.5°	7973.5	3537.2	2021.3	1984.1	1959.3	1872.5	1819.8	1785.7	1816.7	1869.4	1881.8
50°	7623.2	3379.1	1928.3	1857.0	1804.3	1767.1	1729.9	1695.8	1717.5	1754.7	1745.4
52.5°	7105.5	3131.1	1810.5	1736.1	1646.2	1655.5	1621.4	1602.8	1615.2	1615.2	1605.9
55°	6367.6	2573.1	1612.1	1559.4	1485.0	1509.8	1516.0	1491.2	1466.4	1488.1	1469.5
57.5°	4346.4	1816.7	1438.5	1438.5	1364.1	1398.2	1395.1	1336.1	1277.2	1283.4	1271.0
60°	2514.2	1447.8	1326.8	1314.4	1236.9	1264.8	1271.0	1230.7	1140.8	1147.0	1134.6
62.5°	1429.2	1236.9	1159.4	1140.8	1125.3	1150.1	1150.1	1097.4	1019.9	1026.1	1013.7
65°	1215.2	1147.0	1035.4	1032.3	1026.1	1032.3	1007.5	951.7	883.5	855.6	858.7
67.5°	1103.6	1060.2	951.7	923.8	905.2	902.1	855.6	802.9	771.9	747.1	744.0
70°	967.2	933.1	852.5	815.3	796.7	753.3	706.8	672.7	629.3	616.9	629.3
72.5°	765.7	762.6	731.6	691.3	651.0	616.9	576.6	530.1	489.8	480.5	458.8
75°	530.1	536.3	542.5	536.3	502.2	458.8	412.3	375.1	325.5	297.6	291.4
77.5°	347.2	356.5	365.8	353.4	331.7	291.4	260.4	213.9	176.7	155.0	151.9
80°	254.2	266.6	272.8	263.5	238.7	207.7	173.6	136.4	108.5	89.9	89.9
82.5°	195.3	207.7	213.9	198.4	173.6	148.8	124.0	96.1	74.4	58.9	55.8
85°	68.2	65.1	77.5	80.6	96.1	89.9	74.4	55.8	43.4	31.0	27.9
87.5°	18.6	18.6	21.7	21.7	18.6	15.5	15.5	15.5	12.4	9.3	9.3
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)