

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: P528864

Luminaire Tested: **GALN-SA4A-727-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528864  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-727-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12691 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

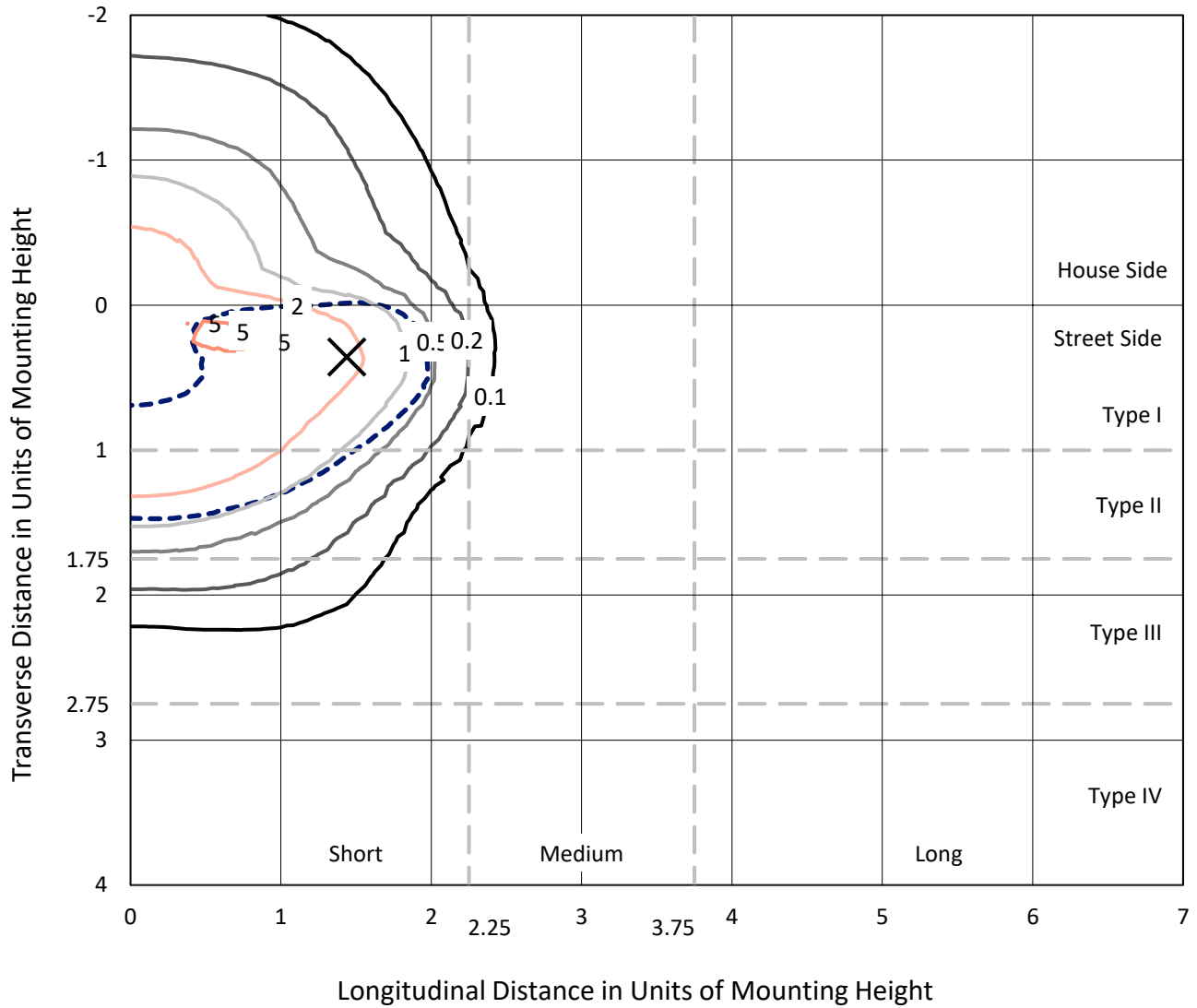
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

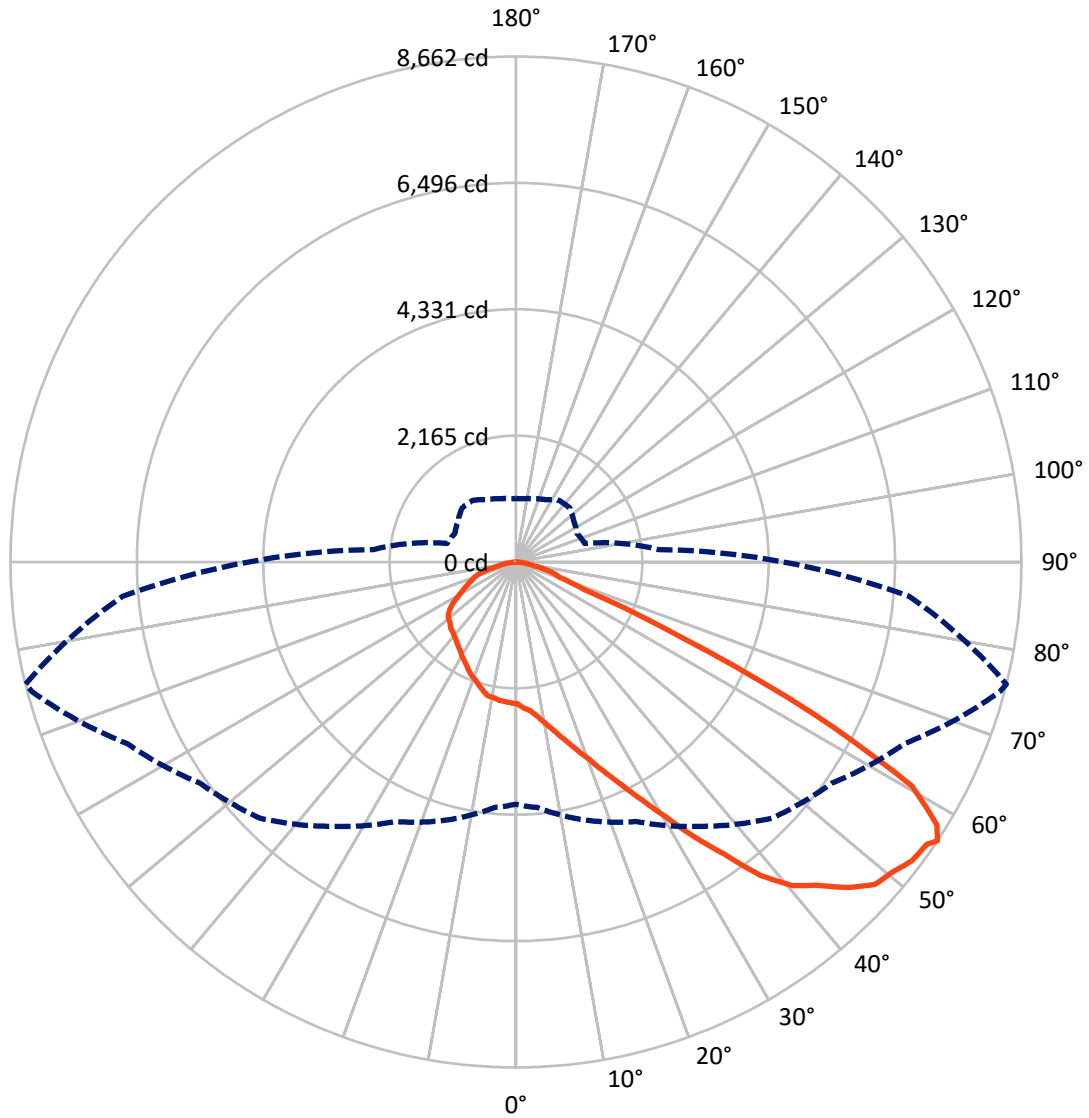
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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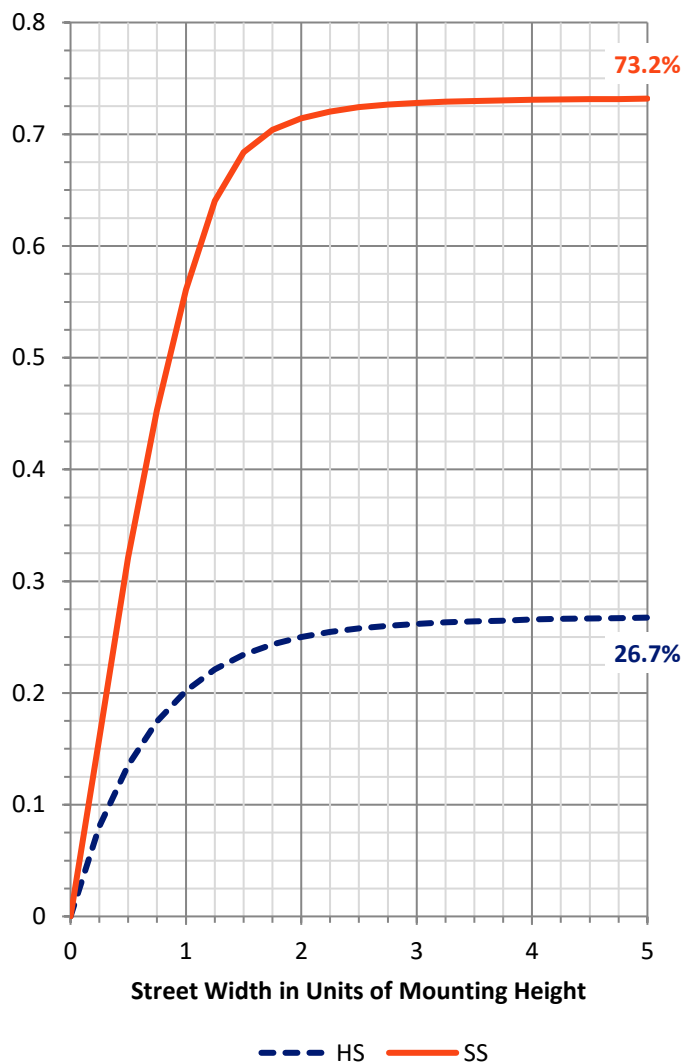
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3412.2	0.0	3412.2
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	9278.8	0.0	9278.8
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	12691.0	0.0	12691.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.8	1.9
10°-20°	756.5	6.0
20°-30°	1323.0	10.4
30°-40°	2071.4	16.3
40°-50°	3013.2	23.7
50°-60°	3311.7	26.1
60°-70°	1478.2	11.6
70°-80°	427.0	3.4
80°-90°	69.3	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°	12691.0	100.0
0°-180°	12691.0	100.0

**Coefficient of Utilization**



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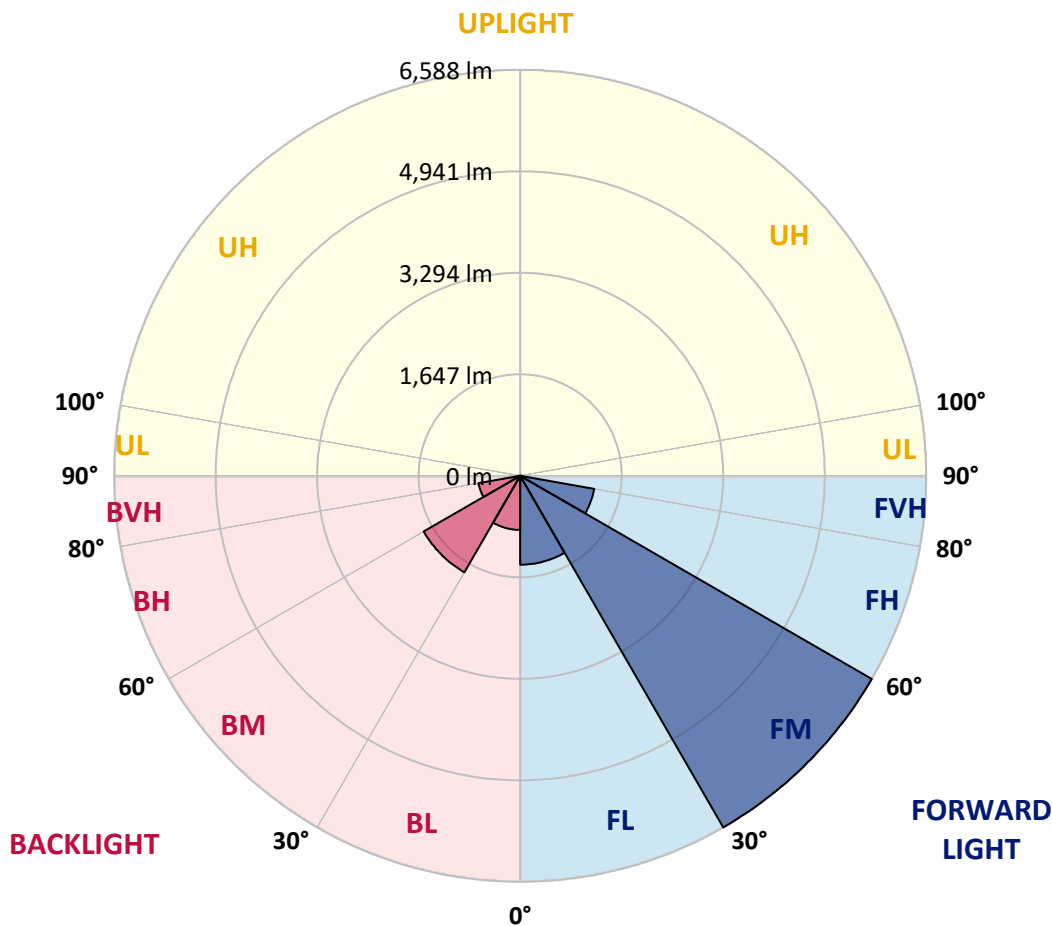
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1442.2	11.4			
FM (30°-60°)	6588.1	51.9			
FH (60°-80°)	1218.6	9.6			G1/1800
FVH (80°-90°)	29.8	0.2			G1/100
BL (0°-30°)	878.0	6.9	B2/1000		
BM (30°-60°)	1808.2	14.2	B2/2500		
BH (60°-80°)	686.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	39.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3
2.5°	2675.0	2632.3	2629.0	2617.5	2624.0	2594.4	2563.2	2522.0	2479.3	2505.6	2443.1
5°	2862.6	2805.0	2828.0	2788.6	2793.5	2754.0	2689.8	2642.1	2589.5	2558.2	2513.8
7.5°	2928.4	2933.3	2949.8	2943.2	2910.3	2910.3	2867.5	2783.6	2691.5	2673.4	2599.4
10°	3017.2	3018.9	3000.8	3005.7	3051.8	3030.4	2992.6	2956.4	2837.9	2816.5	2684.9
12.5°	3048.5	3018.9	3048.5	3074.8	3129.1	3158.7	3150.5	3124.2	2997.5	2982.7	2790.2
15°	3053.4	3035.3	3060.0	3119.2	3166.9	3292.0	3354.5	3336.4	3168.6	3170.2	2908.6
17.5°	3030.4	3055.1	3064.9	3115.9	3226.2	3343.0	3523.9	3548.6	3410.4	3389.0	3058.4
20°	3061.6	3043.6	3056.7	3102.8	3249.2	3431.8	3668.7	3831.6	3637.5	3622.6	3213.0
22.5°	3181.7	3157.1	3153.8	3183.4	3288.7	3477.9	3821.7	4114.6	3913.8	3922.1	3405.5
25°	3275.5	3288.7	3277.2	3275.5	3341.3	3547.0	4024.1	4451.8	4288.9	4241.2	3632.5
27.5°	3436.7	3468.0	3445.0	3476.2	3461.4	3650.6	4168.8	4825.3	4693.6	4629.5	3838.2
30°	3660.5	3676.9	3655.6	3655.6	3611.1	3795.4	4300.5	5215.2	5160.9	5073.7	4080.0
32.5°	3955.0	3979.6	3936.9	3912.2	3905.6	4010.9	4537.4	5600.1	5692.3	5618.2	4400.8
35°	4344.9	4330.1	4279.1	4256.0	4167.2	4341.6	4889.4	6042.7	6284.5	6152.9	4789.1
37.5°	4688.7	4665.7	4662.4	4534.1	4555.5	4698.6	5188.8	6378.3	6858.7	6820.8	5198.7
40°	5009.5	5030.9	5065.5	4993.1	4960.2	5118.1	5537.6	6634.9	7304.5	7289.7	5514.6
42.5°	5353.4	5333.6	5394.5	5333.6	5284.3	5508.0	5916.0	6812.6	7696.1	7574.3	5845.3
45°	5851.8	5789.3	5810.7	5815.6	5779.5	5861.7	6072.3	6940.9	7970.8	7957.7	6087.1
47.5°	6268.1	6269.7	6233.5	6205.6	6095.3	6177.6	6246.7	7021.6	8286.7	8265.3	6180.9
50°	6422.7	6401.3	6506.6	6567.5	6574.1	6406.3	6383.2	7066.0	8452.8	8359.1	6274.6
52.5°	5866.6	5886.4	6052.6	6414.5	6623.4	6641.5	6542.8	7158.1	8520.3	8500.6	6350.3
55°	4721.6	4817.0	5090.1	5508.0	6003.2	6547.7	6715.6	7253.5	8556.5	8540.0	6685.9
56°	4150.7	4224.8	4580.1	4907.5	5529.4	6207.2	6607.0	7355.5	8584.5	8661.8	6764.9
57.5°	3341.3	3426.9	3681.9	4053.7	4787.4	5559.0	6307.6	7230.5	8475.9	8505.5	6822.5
60°	2089.4	2097.6	2403.6	2648.7	3165.3	3918.8	4813.7	6291.1	7844.1	7801.4	6128.2
62.5°	1370.4	1372.1	1650.1	1850.8	2086.1	2258.8	2833.0	4172.1	5787.7	5712.0	4363.0
65°	962.4	983.8	1199.3	1467.5	1562.9	1472.4	1454.3	2199.6	3232.7	3124.2	2344.4
67.5°	704.1	705.8	896.6	1184.5	1322.7	1120.4	909.8	1074.3	1279.9	1276.6	1085.8
70°	465.6	485.3	631.7	885.1	1043.0	899.9	743.6	768.3	814.4	814.4	807.8
72.5°	271.5	289.5	386.6	561.0	585.7	562.6	589.0	658.1	687.7	686.0	677.8
75°	154.6	162.9	184.3	233.6	291.2	343.8	432.7	498.5	528.1	546.2	524.8
77.5°	90.5	95.4	108.6	133.3	151.4	185.9	235.3	281.3	320.8	315.9	319.2
80°	47.7	47.7	60.9	79.0	105.3	131.6	156.3	182.6	204.0	208.9	213.9
82.5°	28.0	29.6	39.5	57.6	75.7	93.8	120.1	138.2	157.9	159.6	162.9
85°	14.8	16.5	24.7	37.8	51.0	57.6	59.2	55.9	60.9	57.6	65.8
87.5°	4.9	4.9	8.2	6.6	6.6	8.2	9.9	9.9	13.2	13.2	13.2
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°	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3	2428.3
2.5°	2441.4	2441.4	2413.5	2360.8	2352.6	2331.2	2311.5	2309.8	2295.0	2281.8	2275.3
5°	2487.5	2436.5	2395.4	2347.6	2291.7	2265.4	2235.8	2202.9	2189.7	2202.9	2201.2
7.5°	2540.1	2497.4	2374.0	2285.1	2221.0	2194.6	2161.7	2127.2	2130.5	2130.5	2107.5
10°	2591.1	2533.6	2336.1	2222.6	2128.8	2109.1	2091.0	2104.2	2120.6	2123.9	2109.1
12.5°	2676.7	2546.7	2318.0	2160.1	2100.9	2058.1	2069.6	2105.8	2140.4	2130.5	2142.0
15°	2740.8	2558.2	2235.8	2095.9	2021.9	2041.6	2082.8	2107.5	2165.0	2158.5	2170.0
17.5°	2803.4	2564.8	2155.2	2010.4	1979.1	2033.4	2064.7	2135.4	2153.5	2193.0	2207.8
20°	2931.7	2578.0	2072.9	1957.7	1947.9	2010.4	2064.7	2097.6	2137.1	2171.6	2171.6
22.5°	2997.5	2571.4	2018.6	1888.6	1919.9	1959.4	2008.7	2064.7	2064.7	2097.6	2099.2
25°	3079.7	2545.1	1933.1	1855.7	1878.8	1916.6	1972.5	1952.8	1974.2	1974.2	2000.5
27.5°	3173.5	2489.1	1859.0	1796.5	1842.6	1883.7	1891.9	1878.8	1854.1	1850.8	1840.9
30°	3249.2	2420.0	1804.7	1776.8	1814.6	1837.6	1811.3	1783.4	1740.6	1737.3	1714.3
32.5°	3352.8	2334.5	1737.3	1727.4	1770.2	1771.8	1763.6	1720.8	1658.3	1632.0	1605.7
35°	3527.2	2285.1	1686.3	1701.1	1714.3	1709.3	1694.5	1648.5	1585.9	1574.4	1564.5
37.5°	3655.6	2248.9	1633.6	1651.7	1663.3	1669.8	1625.4	1574.4	1576.1	1553.0	1546.5
40°	3800.3	2225.9	1590.9	1599.1	1600.7	1622.1	1567.8	1543.2	1554.7	1539.9	1549.7
42.5°	3986.2	2232.5	1546.5	1539.9	1571.1	1562.9	1536.6	1503.7	1510.3	1465.8	1472.4
45°	4084.9	2276.9	1520.1	1490.5	1525.1	1523.4	1488.9	1457.6	1418.1	1332.6	1335.9
47.5°	4150.7	2288.4	1457.6	1437.9	1474.1	1495.5	1456.0	1383.6	1327.6	1266.8	1252.0
50°	4218.2	2309.8	1428.0	1386.9	1401.7	1452.7	1403.3	1334.2	1279.9	1225.6	1233.9
52.5°	4277.4	2350.9	1370.4	1309.5	1335.9	1391.8	1365.5	1281.6	1222.4	1177.9	1164.8
55°	4540.6	2443.1	1273.4	1194.4	1256.9	1327.6	1312.8	1210.8	1146.7	1123.6	1120.4
56°	4581.8	2446.4	1222.4	1154.9	1212.5	1306.3	1288.2	1179.6	1122.0	1085.8	1087.5
57.5°	4588.4	2406.9	1150.0	1118.7	1168.1	1275.0	1252.0	1154.9	1075.9	1043.0	1033.2
60°	4037.2	1878.8	1059.5	1039.7	1097.3	1179.6	1171.4	1087.5	998.6	960.8	978.9
62.5°	2752.4	1377.0	988.7	985.5	1015.1	1095.7	1074.3	998.6	924.6	899.9	888.4
65°	1602.4	1044.7	919.6	906.5	931.2	973.9	988.7	909.8	832.5	816.0	811.1
67.5°	946.0	863.7	830.8	809.4	801.2	827.5	839.0	793.0	715.6	692.6	712.4
70°	791.3	768.3	769.9	733.7	714.0	695.9	686.0	644.9	580.7	551.1	542.9
72.5°	682.7	672.9	666.3	633.4	615.3	574.2	531.4	490.3	442.5	417.9	419.5
75°	521.5	518.2	521.5	505.1	473.8	440.9	401.4	348.8	312.6	281.3	287.9
77.5°	310.9	320.8	325.7	319.2	306.0	276.4	251.7	217.2	182.6	157.9	154.6
80°	213.9	222.1	230.3	222.1	208.9	187.5	161.2	134.9	110.2	97.1	93.8
82.5°	162.9	171.1	176.0	167.8	151.4	128.3	110.2	92.1	72.4	59.2	55.9
85°	59.2	67.5	65.8	79.0	85.5	82.3	70.7	54.3	41.1	29.6	28.0
87.5°	16.5	14.8	16.5	16.5	16.5	14.8	13.2	13.2	13.2	8.2	6.6
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)