

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: P530503

Luminaire Tested: **GALN-SA5D-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530503  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-727-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21428 lumens  
Efficiency: N/A  
Efficacy: 69.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

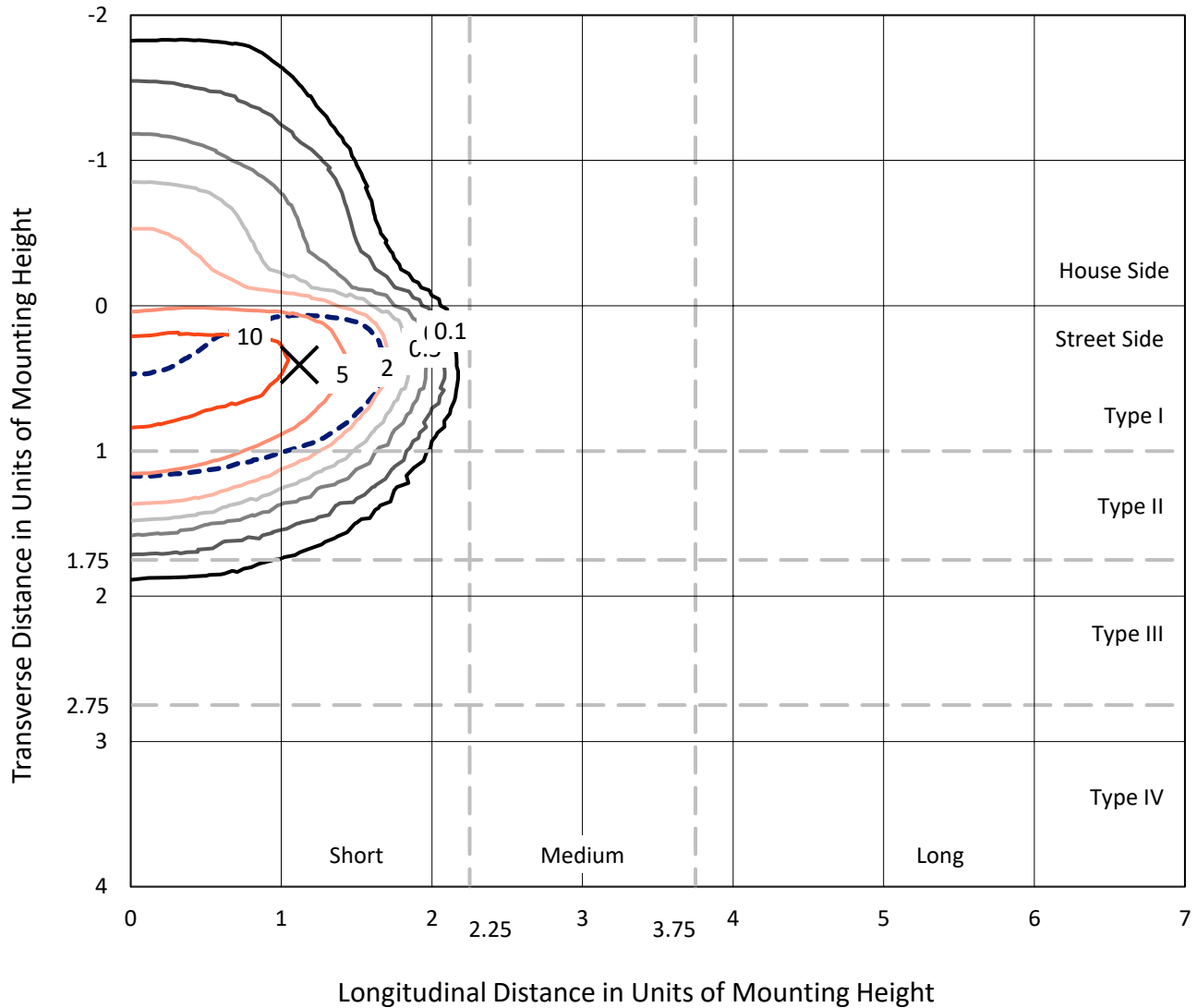
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

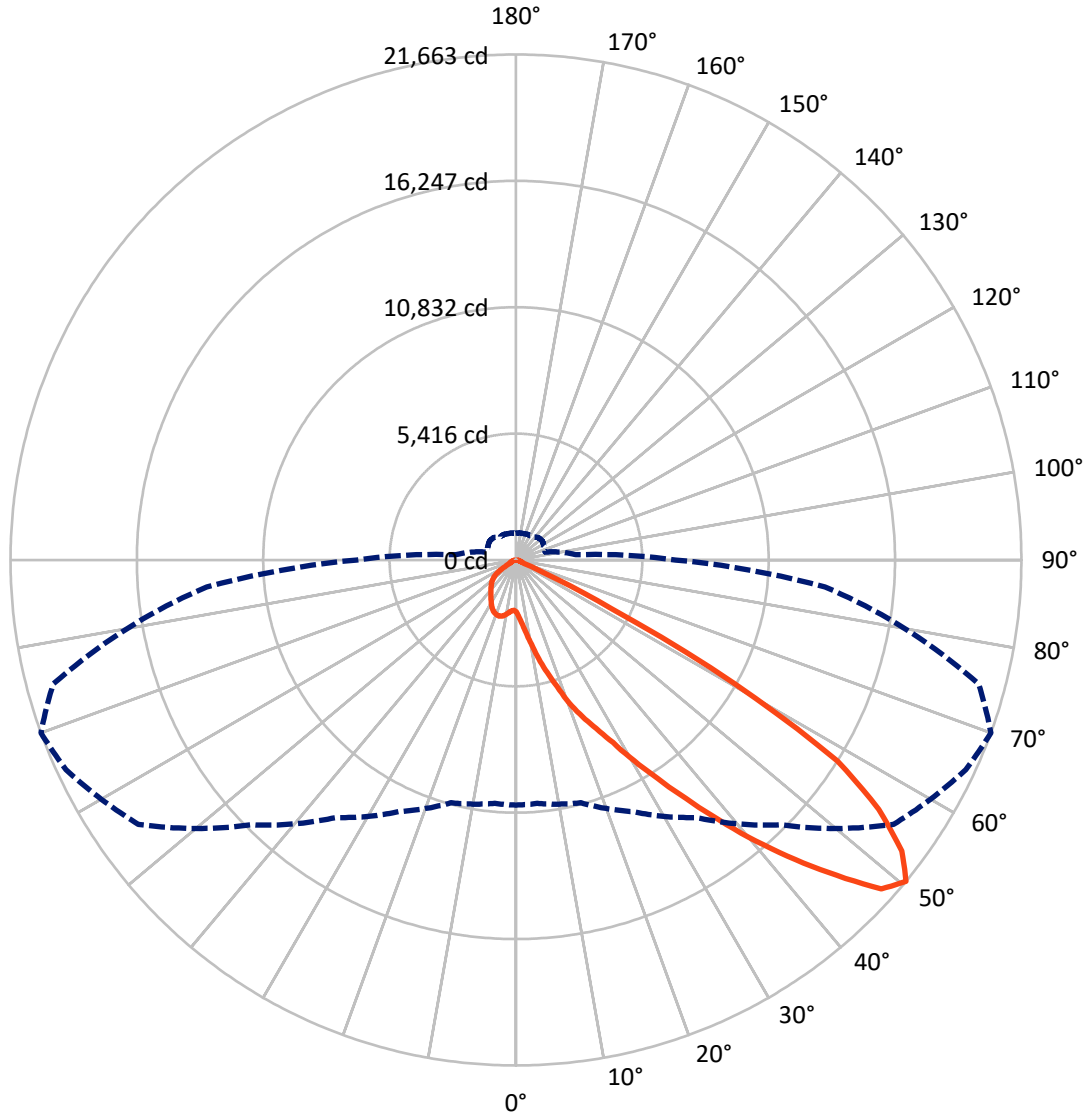
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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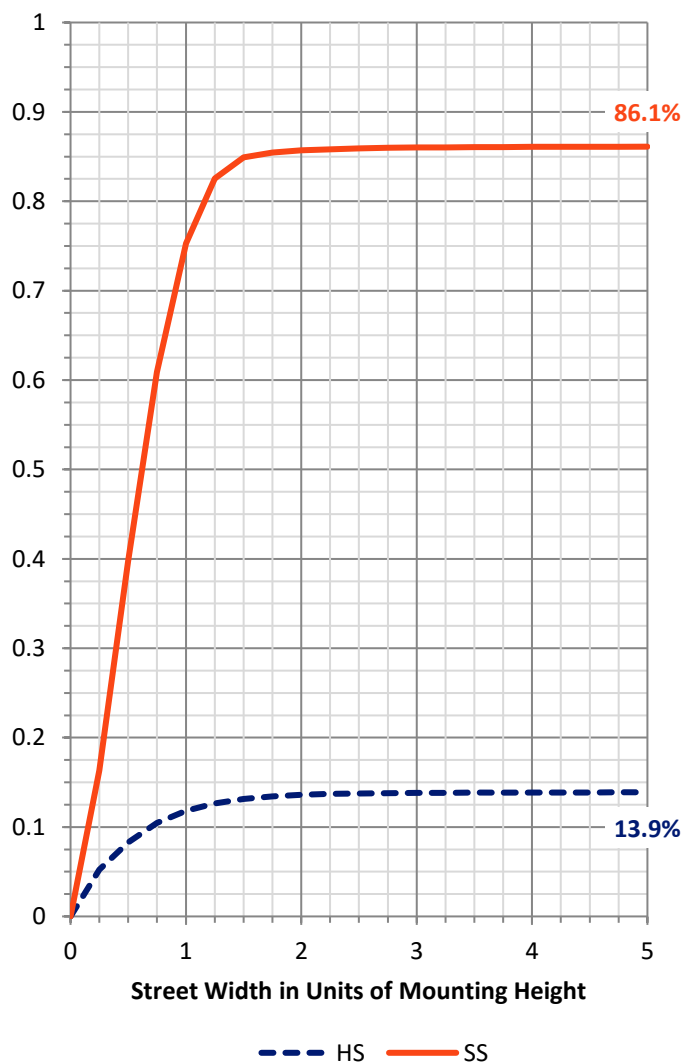
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2992.6	0.0	2992.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	18435.4	0.0	18435.4
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	21428.0	0.0	21428.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.6	1.3
10°-20°	1248.5	5.8
20°-30°	2619.1	12.2
30°-40°	4514.4	21.1
40°-50°	6597.7	30.8
50°-60°	5138.5	24.0
60°-70°	870.6	4.1
70°-80°	119.6	0.6
80°-90°	31.0	0.1
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°	21428.0	100.0
0°-180°	21428.0	100.0

**Coefficient of Utilization**



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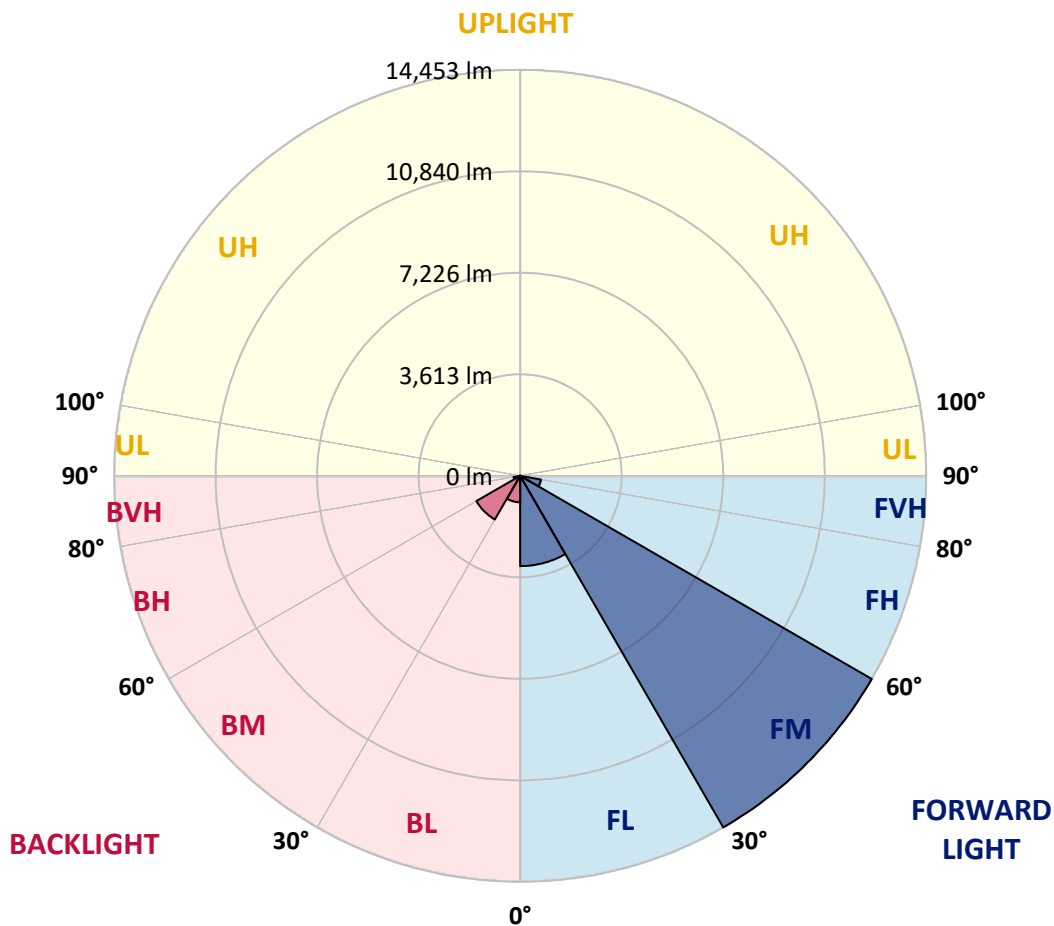
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3214.5	15.0			
FM (30°-60°)	14452.8	67.4			
FH (60°-80°)	753.8	3.5			G1/1800
FVH (80°-90°)	14.3	0.1			G1/100
BL (0°-30°)	941.7	4.4	B2/1000		
BM (30°-60°)	1797.8	8.4	B2/2500		
BH (60°-80°)	236.4	1.1	B1/500		G1/500
BVH (80°-90°)	16.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2219.5	2219.5	2219.5	2219.5	2219.5	2219.5	2219.5	2219.5	2219.5	2219.5	2219.5
2.5°	2906.5	2885.4	2839.6	2755.0	2719.8	2635.2	2585.9	2490.8	2430.9	2364.0	2290.0
5°	4093.8	3984.6	3917.6	3822.5	3544.2	3371.6	3086.2	2843.1	2730.4	2607.1	2437.9
7.5°	5319.8	5249.3	5157.7	4953.4	4763.2	4403.8	3914.1	3378.6	3149.6	2938.2	2603.5
10°	6334.4	6137.1	6126.6	5975.1	5767.2	5337.4	4749.1	4083.2	3674.5	3364.5	2839.6
12.5°	7042.6	6862.9	6943.9	6926.3	6732.5	6338.0	5658.0	4777.3	4351.0	3868.3	3082.7
15°	7687.3	7613.3	7588.6	7567.5	7490.0	7197.6	6588.1	5622.8	5006.2	4424.9	3357.5
17.5°	8317.9	8127.7	8219.3	8236.9	8229.8	7965.6	7394.9	6426.0	5700.3	5013.3	3646.4
20°	8878.1	8895.7	8772.4	8747.7	8726.6	8716.0	8159.4	7222.2	6552.9	5629.8	4023.3
22.5°	9596.8	9473.5	9582.7	9512.2	9374.8	9290.3	8864.0	7926.9	7292.7	6373.2	4407.3
25°	10445.8	10544.5	10287.3	10259.1	10107.6	9815.2	9431.2	8716.0	8004.4	7063.7	4823.0
27.5°	11492.2	11319.5	11252.6	11097.6	10822.8	10699.5	10248.5	9529.8	8864.0	7789.5	5224.7
30°	12390.6	12344.8	12010.1	11826.9	11587.3	11583.8	10953.1	10632.6	9984.3	8927.4	5777.8
32.5°	13123.3	12922.5	12799.2	12672.4	12478.6	12531.5	11999.5	11830.4	11178.6	9984.3	6429.6
35°	13613.0	13468.6	13394.6	13200.9	13144.5	13380.5	13158.6	13088.1	12552.6	11471.0	7194.1
37.5°	13768.1	13813.9	13799.8	13556.7	13676.5	14314.1	14599.5	14416.3	14134.5	13038.8	8022.0
40°	13905.5	13937.2	13866.7	14152.1	14493.8	15219.6	16251.8	15948.8	15843.1	14627.7	9174.0
42.5°	13983.0	13958.3	13958.3	14451.5	14969.4	16428.0	17847.7	17646.9	17565.9	16318.7	10505.7
45°	13648.3	13408.7	13665.9	14335.3	15378.1	17023.4	19123.1	19401.4	19285.2	18330.4	12062.9
47.5°	12397.6	12545.6	12690.0	13584.9	14881.3	16840.2	19905.2	20852.9	21067.8	20021.5	13084.6
50°	10505.7	10474.0	10773.5	11900.8	13475.7	16051.0	19753.7	21272.2	21663.2	20528.8	13299.5
52.5°	7641.5	7874.0	8198.1	9318.5	11185.7	14007.6	17798.4	20190.6	20712.0	19905.2	13158.6
55°	4449.6	4192.4	4921.7	5869.4	7630.9	10565.6	15046.9	17897.1	18862.4	18770.8	12446.9
57.5°	1782.7	1726.3	1976.4	2663.4	3981.0	6549.3	10942.6	14705.2	16251.8	17192.5	10939.1
60°	782.1	764.5	898.4	1085.1	1627.6	3019.3	5985.7	9145.8	10759.4	12013.6	7528.7
62.5°	563.7	556.6	623.6	690.5	859.6	1314.1	2515.5	3685.1	4594.1	5548.8	3371.6
65°	454.5	472.1	517.9	553.1	634.1	729.3	887.8	1025.2	1257.7	1303.5	743.4
67.5°	369.9	384.0	426.3	465.0	479.1	394.6	408.7	359.4	359.4	320.6	257.2
70°	271.3	274.8	324.1	369.9	295.9	158.5	278.3	278.3	250.1	239.6	218.4
72.5°	200.8	204.3	243.1	229.0	116.3	98.6	204.3	225.5	204.3	193.8	176.2
75°	148.0	151.5	126.8	52.8	49.3	63.4	119.8	155.0	148.0	144.4	133.9
77.5°	28.2	21.1	17.6	24.7	35.2	52.8	77.5	95.1	98.6	105.7	98.6
80°	3.5	3.5	10.6	21.1	38.8	56.4	81.0	91.6	95.1	98.6	91.6
82.5°	0.0	3.5	10.6	21.1	38.8	52.8	70.5	81.0	88.1	91.6	88.1
85°	0.0	3.5	7.0	17.6	31.7	38.8	35.2	24.7	21.1	24.7	17.6
87.5°	0.0	0.0	3.5	3.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0
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°	2219.5	2219.5	2219.5	2219.5	2219.5	2219.5	2219.5	2219.5	2219.5	2219.5	2219.5
2.5°	2247.7	2233.6	2184.3	2131.4	2085.6	2106.8	2085.6	2068.0	2075.1	2068.0	2061.0
5°	2371.0	2307.6	2201.9	2156.1	2117.4	2113.8	2103.3	2099.7	2103.3	2103.3	2071.6
7.5°	2487.3	2385.1	2272.4	2223.0	2177.2	2180.8	2156.1	2156.1	2152.6	2135.0	2127.9
10°	2663.4	2526.0	2381.6	2293.5	2237.1	2226.6	2201.9	2177.2	2177.2	2177.2	2142.0
12.5°	2857.2	2684.6	2487.3	2385.1	2318.2	2265.3	2226.6	2219.5	2180.8	2173.7	2156.1
15°	3026.3	2807.9	2557.7	2416.8	2332.3	2261.8	2201.9	2163.2	2145.5	2135.0	2120.9
17.5°	3191.9	2913.6	2596.5	2416.8	2325.2	2244.2	2180.8	2145.5	2103.3	2110.3	2082.1
20°	3413.8	3026.3	2607.1	2371.0	2258.3	2180.8	2096.2	2078.6	2053.9	2032.8	2039.8
22.5°	3628.7	3107.3	2575.3	2314.6	2152.6	2061.0	2018.7	1997.6	1987.0	1969.4	1944.7
25°	3822.5	3195.4	2526.0	2212.5	2039.8	1972.9	1934.2	1930.6	1906.0	1906.0	1860.2
27.5°	4019.8	3227.1	2441.5	2092.7	1941.2	1902.4	1884.8	1877.8	1867.2	1842.6	1810.8
30°	4245.3	3237.7	2318.2	1969.4	1853.1	1810.8	1835.5	1853.1	1807.3	1761.5	1775.6
32.5°	4432.0	3213.0	2170.2	1853.1	1789.7	1768.6	1817.9	1835.5	1782.7	1733.3	1708.7
35°	4657.5	3153.1	2025.8	1761.5	1726.3	1768.6	1810.8	1810.8	1705.2	1645.3	1631.2
37.5°	4999.2	3086.2	1891.9	1684.0	1659.4	1747.4	1803.8	1765.0	1599.5	1525.5	1507.9
40°	5365.6	3043.9	1761.5	1606.5	1624.1	1712.2	1743.9	1624.1	1455.0	1409.2	1395.1
42.5°	5897.6	2959.4	1645.3	1539.6	1592.4	1662.9	1662.9	1448.0	1384.6	1359.9	1356.4
45°	6559.9	2899.5	1543.1	1483.2	1546.6	1564.2	1507.9	1356.4	1310.6	1303.5	1307.0
47.5°	6884.0	2783.2	1437.4	1416.3	1462.1	1465.6	1317.6	1282.4	1243.6	1233.1	1226.0
50°	6834.7	2575.3	1300.0	1328.2	1391.6	1356.4	1201.4	1208.4	1173.2	1169.7	1152.0
52.5°	6489.5	2247.7	1162.6	1229.5	1300.0	1197.8	1106.2	1099.2	1099.2	1053.4	1035.8
55°	5753.1	1810.8	997.0	1081.6	1166.1	1007.6	982.9	975.9	958.3	916.0	905.4
57.5°	4555.3	1328.2	750.4	842.0	990.0	856.1	852.6	820.9	775.1	743.4	743.4
60°	2709.2	764.5	472.1	514.4	655.3	694.0	771.5	757.5	679.9	630.6	616.5
62.5°	1236.6	394.6	299.5	306.5	352.3	450.9	606.0	701.1	591.9	507.3	500.3
65°	415.7	292.4	246.6	236.0	243.1	271.3	362.9	496.7	472.1	391.1	377.0
67.5°	253.7	260.7	232.5	214.9	214.9	211.4	207.9	225.5	278.3	271.3	274.8
70°	218.4	239.6	214.9	193.8	186.7	176.2	148.0	123.3	105.7	123.3	130.4
72.5°	176.2	190.2	183.2	165.6	148.0	133.9	105.7	81.0	59.9	52.8	52.8
75°	130.4	140.9	148.0	126.8	112.7	95.1	77.5	52.8	31.7	21.1	21.1
77.5°	95.1	105.7	109.2	98.6	84.6	66.9	49.3	35.2	17.6	7.0	7.0
80°	81.0	95.1	105.7	98.6	88.1	63.4	45.8	24.7	14.1	3.5	3.5
82.5°	77.5	95.1	105.7	95.1	84.6	59.9	45.8	28.2	10.6	3.5	3.5
85°	17.6	24.7	31.7	38.8	45.8	45.8	35.2	21.1	10.6	3.5	3.5
87.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	3.5	3.5	0.0
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)