

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: P530659

Luminaire Tested: **GALN-SA5D-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530659  
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-827-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 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: 18835 lumens  
Efficiency: N/A  
Efficacy: 61.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

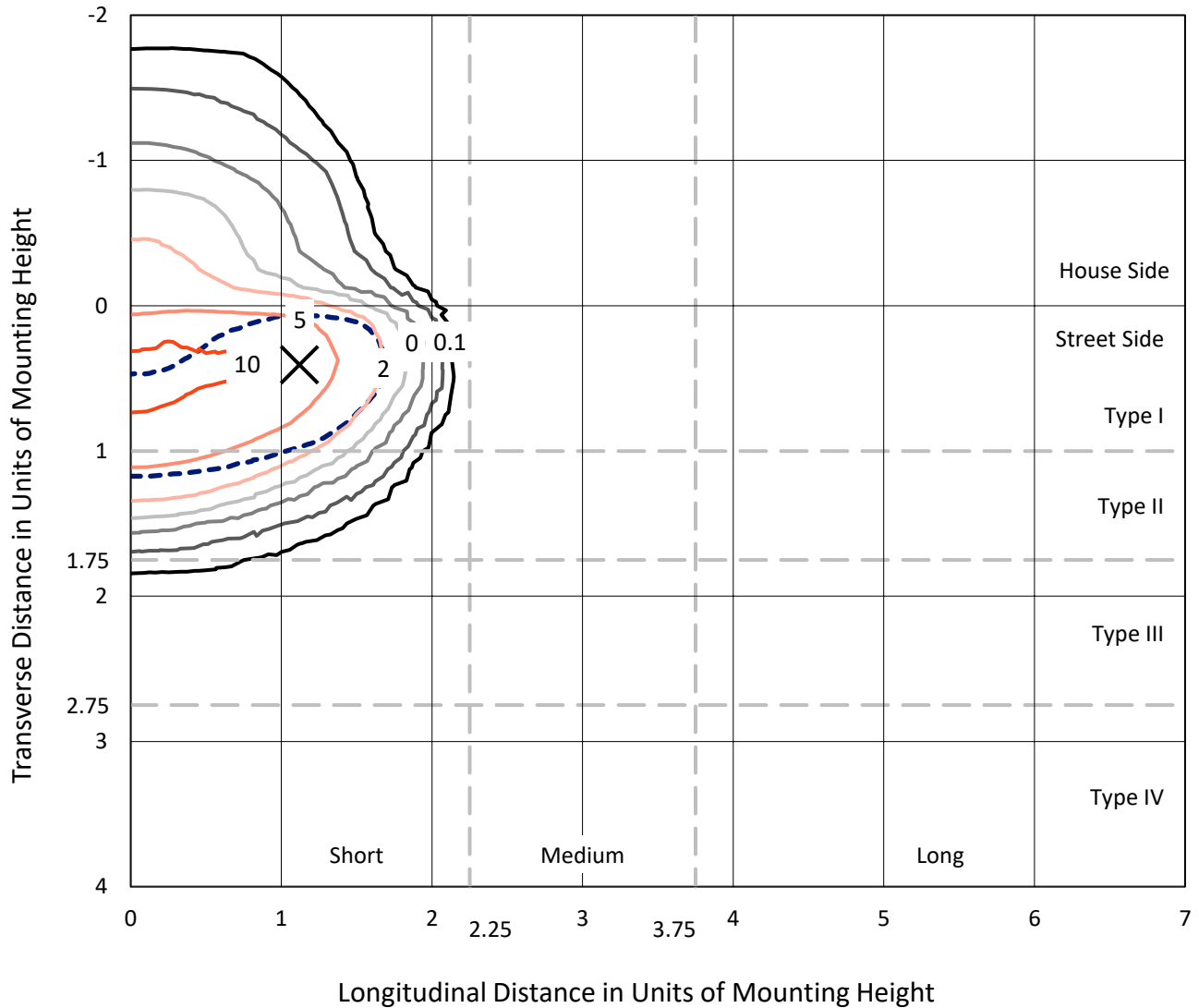
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

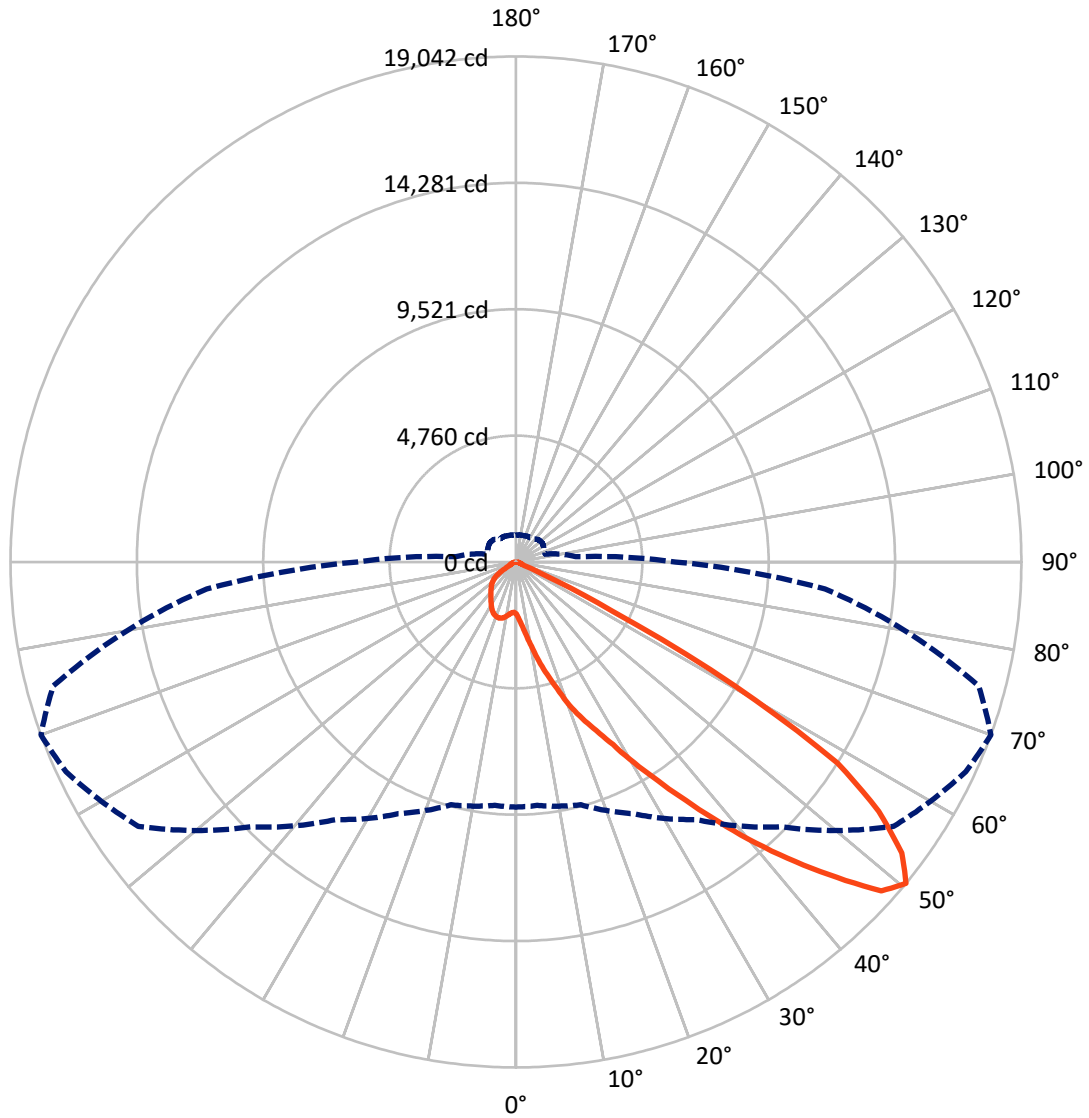
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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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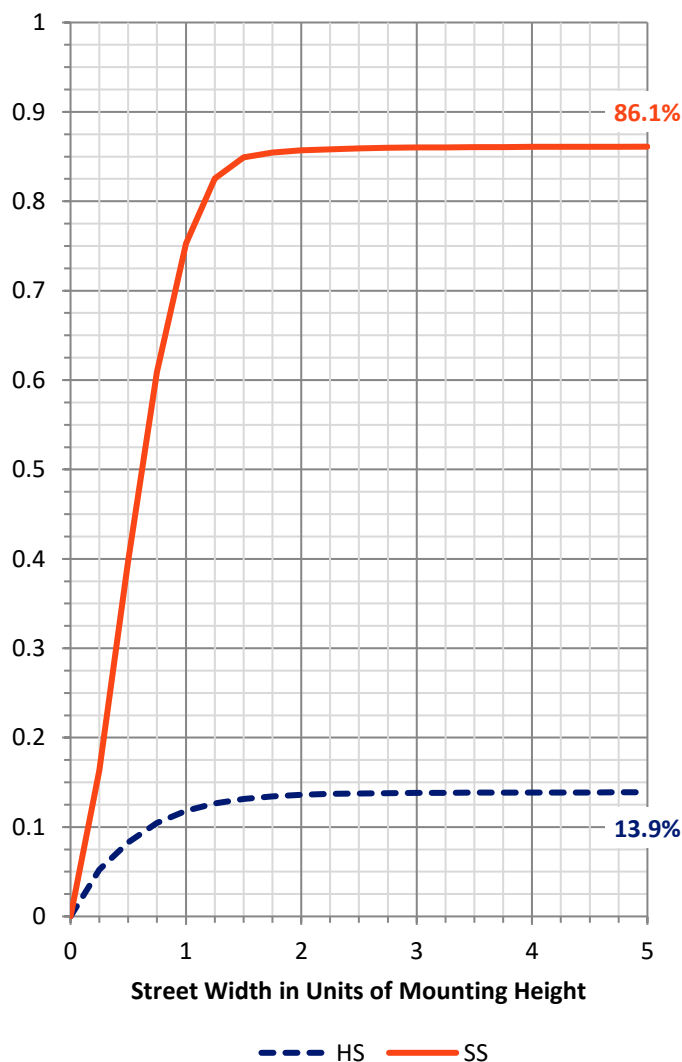
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2630.4	0.0	2630.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	16204.6	0.0	16204.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	18835.0	0.0	18835.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.7	1.3
10°-20°	1097.4	5.8
20°-30°	2302.1	12.2
30°-40°	3968.1	21.1
40°-50°	5799.3	30.8
50°-60°	4516.7	24.0
60°-70°	765.3	4.1
70°-80°	105.1	0.6
80°-90°	27.2	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°	18835.0	100.0
0°-180°	18835.0	100.0

**Coefficient of Utilization**

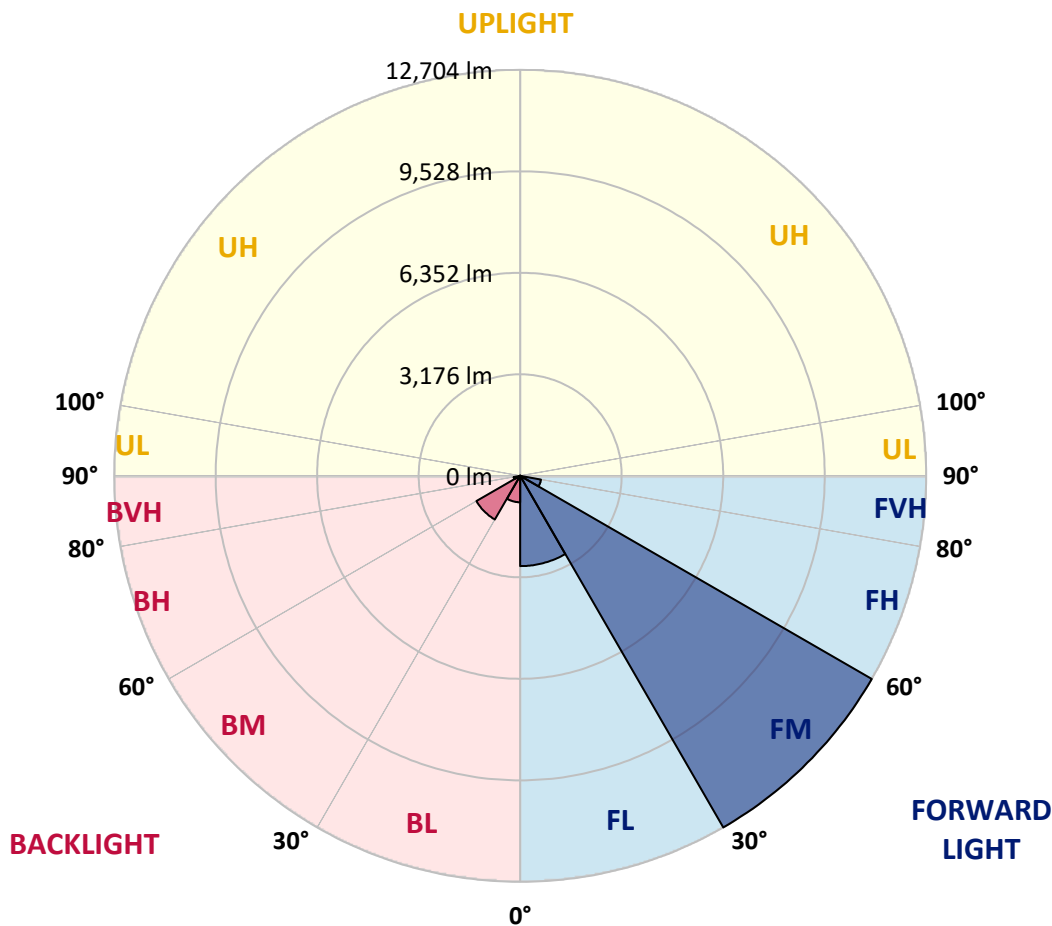


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2825.5	15.0			
FM (30°-60°)	12703.9	67.4			
FH (60°-80°)	662.6	3.5			G1/1800
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	827.7	4.4	B2/1000		
BM (30°-60°)	1580.3	8.4	B2/2500		
BH (60°-80°)	207.8	1.1	B1/500		G1/500
BVH (80°-90°)	14.6	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°	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9
2.5°	2554.8	2536.2	2496.0	2421.6	2390.7	2316.3	2273.0	2189.4	2136.7	2077.9	2012.9
5°	3598.4	3502.4	3443.6	3359.9	3115.3	2963.6	2712.7	2499.1	2400.0	2291.6	2142.9
7.5°	4676.1	4614.1	4533.6	4354.0	4186.8	3870.9	3440.5	2969.8	2768.5	2582.7	2288.5
10°	5567.9	5394.5	5385.2	5252.0	5069.3	4691.5	4174.4	3589.1	3229.9	2957.4	2496.0
12.5°	6190.3	6032.4	6103.6	6088.2	5917.8	5571.0	4973.3	4199.2	3824.5	3400.2	2709.6
15°	6757.0	6692.0	6670.3	6651.8	6583.6	6326.6	5790.9	4942.4	4400.4	3889.5	2951.2
17.5°	7311.4	7144.1	7224.7	7240.1	7233.9	7001.7	6500.0	5648.4	5010.5	4406.6	3205.1
20°	7803.7	7819.2	7710.8	7689.2	7670.6	7661.3	7172.0	6348.3	5759.9	4948.6	3536.5
22.5°	8435.5	8327.1	8423.1	8361.2	8240.4	8166.1	7791.4	6967.6	6410.2	5602.0	3874.0
25°	9181.8	9268.5	9042.4	9017.7	8884.5	8627.5	8289.9	7661.3	7035.8	6208.9	4239.4
27.5°	10101.5	9949.8	9890.9	9754.7	9513.1	9404.7	9008.4	8376.6	7791.4	6846.9	4592.4
30°	10891.2	10850.9	10556.7	10395.7	10185.1	10182.0	9627.7	9345.9	8776.1	7847.1	5078.6
32.5°	11535.3	11358.8	11250.4	11138.9	10968.6	11015.0	10547.4	10398.8	9825.9	8776.1	5651.5
35°	11965.7	11838.8	11773.7	11603.4	11553.9	11761.4	11566.3	11504.3	11033.6	10082.9	6323.5
37.5°	12102.0	12142.2	12129.9	11916.2	12021.5	12582.0	12832.8	12671.8	12424.1	11461.0	7051.2
40°	12222.8	12250.6	12188.7	12439.5	12739.9	13377.8	14285.2	14018.9	13926.0	12857.6	8063.9
42.5°	12290.9	12269.2	12269.2	12702.8	13158.0	14440.0	15688.0	15511.5	15440.3	14344.0	9234.4
45°	11996.7	11786.1	12012.2	12600.6	13517.2	14963.4	16809.0	17053.7	16951.5	16112.2	10603.2
47.5°	10897.4	11027.4	11154.4	11941.0	13080.6	14802.3	17496.5	18329.5	18518.4	17598.7	11501.2
50°	9234.4	9206.6	9469.8	10460.7	11845.0	14108.7	17363.3	18698.0	19041.7	18044.6	11690.1
52.5°	6716.8	6921.2	7206.1	8190.8	9832.1	12312.6	15644.6	17747.3	18205.6	17496.5	11566.3
55°	3911.2	3685.1	4326.1	5159.1	6707.5	9287.1	13226.1	15731.3	16579.9	16499.3	10940.7
57.5°	1566.9	1517.4	1737.3	2341.1	3499.3	5756.8	9618.4	12925.7	14285.2	15112.0	9615.3
60°	687.5	672.0	789.7	953.8	1430.7	2653.9	5261.3	8039.1	9457.4	10559.8	6617.7
62.5°	495.5	489.3	548.1	607.0	755.6	1155.1	2211.1	3239.2	4038.1	4877.3	2963.6
65°	399.5	415.0	455.2	486.2	557.4	641.0	780.4	901.1	1105.5	1145.8	653.4
67.5°	325.2	337.5	374.7	408.8	421.2	346.8	359.2	315.9	315.9	281.8	226.1
70°	238.4	241.5	284.9	325.2	260.1	139.4	244.6	244.6	219.9	210.6	192.0
72.5°	176.5	179.6	213.7	201.3	102.2	86.7	179.6	198.2	179.6	170.3	154.8
75°	130.1	133.2	111.5	46.5	43.4	55.7	105.3	136.3	130.1	127.0	117.7
77.5°	24.8	18.6	15.5	21.7	31.0	46.5	68.1	83.6	86.7	92.9	86.7
80°	3.1	3.1	9.3	18.6	34.1	49.5	71.2	80.5	83.6	86.7	80.5
82.5°	0.0	3.1	9.3	18.6	34.1	46.5	61.9	71.2	77.4	80.5	77.4
85°	0.0	3.1	6.2	15.5	27.9	34.1	31.0	21.7	18.6	21.7	15.5
87.5°	0.0	0.0	3.1	3.1	6.2	6.2	6.2	6.2	6.2	6.2	6.2
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°	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9	1950.9
2.5°	1975.7	1963.3	1920.0	1873.5	1833.3	1851.8	1833.3	1817.8	1824.0	1817.8	1811.6
5°	2084.1	2028.4	1935.5	1895.2	1861.1	1858.0	1848.7	1845.6	1848.7	1848.7	1820.9
7.5°	2186.3	2096.5	1997.4	1954.0	1913.8	1916.9	1895.2	1895.2	1892.1	1876.6	1870.4
10°	2341.1	2220.3	2093.4	2016.0	1966.4	1957.1	1935.5	1913.8	1913.8	1913.8	1882.8
12.5°	2511.4	2359.7	2186.3	2096.5	2037.6	1991.2	1957.1	1950.9	1916.9	1910.7	1895.2
15°	2660.1	2468.1	2248.2	2124.4	2050.0	1988.1	1935.5	1901.4	1885.9	1876.6	1864.2
17.5°	2805.6	2561.0	2282.3	2124.4	2043.8	1972.6	1916.9	1885.9	1848.7	1854.9	1830.2
20°	3000.7	2660.1	2291.6	2084.1	1985.0	1916.9	1842.5	1827.1	1805.4	1786.8	1793.0
22.5°	3189.6	2731.3	2263.7	2034.5	1892.1	1811.6	1774.4	1755.8	1746.6	1731.1	1709.4
25°	3359.9	2808.7	2220.3	1944.7	1793.0	1734.2	1700.1	1697.0	1675.3	1675.3	1635.1
27.5°	3533.4	2836.6	2146.0	1839.5	1706.3	1672.2	1656.7	1650.6	1641.3	1619.6	1591.7
30°	3731.6	2845.9	2037.6	1731.1	1628.9	1591.7	1613.4	1628.9	1588.6	1548.4	1560.7
32.5°	3895.7	2824.2	1907.6	1628.9	1573.1	1554.6	1597.9	1613.4	1566.9	1523.6	1501.9
35°	4093.9	2771.6	1780.6	1548.4	1517.4	1554.6	1591.7	1591.7	1498.8	1446.2	1433.8
37.5°	4394.2	2712.7	1662.9	1480.2	1458.6	1536.0	1585.5	1551.5	1405.9	1340.9	1325.4
40°	4716.3	2675.6	1548.4	1412.1	1427.6	1505.0	1532.9	1427.6	1278.9	1238.7	1226.3
42.5°	5183.9	2601.2	1446.2	1353.3	1399.7	1461.7	1461.7	1272.8	1217.0	1195.3	1192.2
45°	5766.1	2548.6	1356.4	1303.7	1359.5	1374.9	1325.4	1192.2	1152.0	1145.8	1148.9
47.5°	6051.0	2446.4	1263.5	1244.9	1285.1	1288.2	1158.2	1127.2	1093.1	1083.9	1077.7
50°	6007.6	2263.7	1142.7	1167.5	1223.2	1192.2	1056.0	1062.2	1031.2	1028.1	1012.6
52.5°	5704.2	1975.7	1021.9	1080.8	1142.7	1052.9	972.4	966.2	966.2	925.9	910.4
55°	5056.9	1591.7	876.4	950.7	1025.0	885.7	864.0	857.8	842.3	805.1	795.9
57.5°	4004.1	1167.5	659.6	740.1	870.2	752.5	749.4	721.5	681.3	653.4	653.4
60°	2381.4	672.0	415.0	452.1	576.0	610.1	678.2	665.8	597.7	554.3	541.9
62.5°	1086.9	346.8	263.2	269.4	309.7	396.4	532.6	616.2	520.2	445.9	439.7
65°	365.4	257.0	216.8	207.5	213.7	238.4	319.0	436.6	415.0	343.7	331.3
67.5°	223.0	229.2	204.4	188.9	188.9	185.8	182.7	198.2	244.6	238.4	241.5
70°	192.0	210.6	188.9	170.3	164.1	154.8	130.1	108.4	92.9	108.4	114.6
72.5°	154.8	167.2	161.0	145.5	130.1	117.7	92.9	71.2	52.6	46.5	46.5
75°	114.6	123.9	130.1	111.5	99.1	83.6	68.1	46.5	27.9	18.6	18.6
77.5°	83.6	92.9	96.0	86.7	74.3	58.8	43.4	31.0	15.5	6.2	6.2
80°	71.2	83.6	92.9	86.7	77.4	55.7	40.3	21.7	12.4	3.1	3.1
82.5°	68.1	83.6	92.9	83.6	74.3	52.6	40.3	24.8	9.3	3.1	3.1
85°	15.5	21.7	27.9	34.1	40.3	40.3	31.0	18.6	9.3	3.1	3.1
87.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	3.1	3.1	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)