

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: P527460

Luminaire Tested: **GALN-SA2C-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527460
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-SA2C-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 9918 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

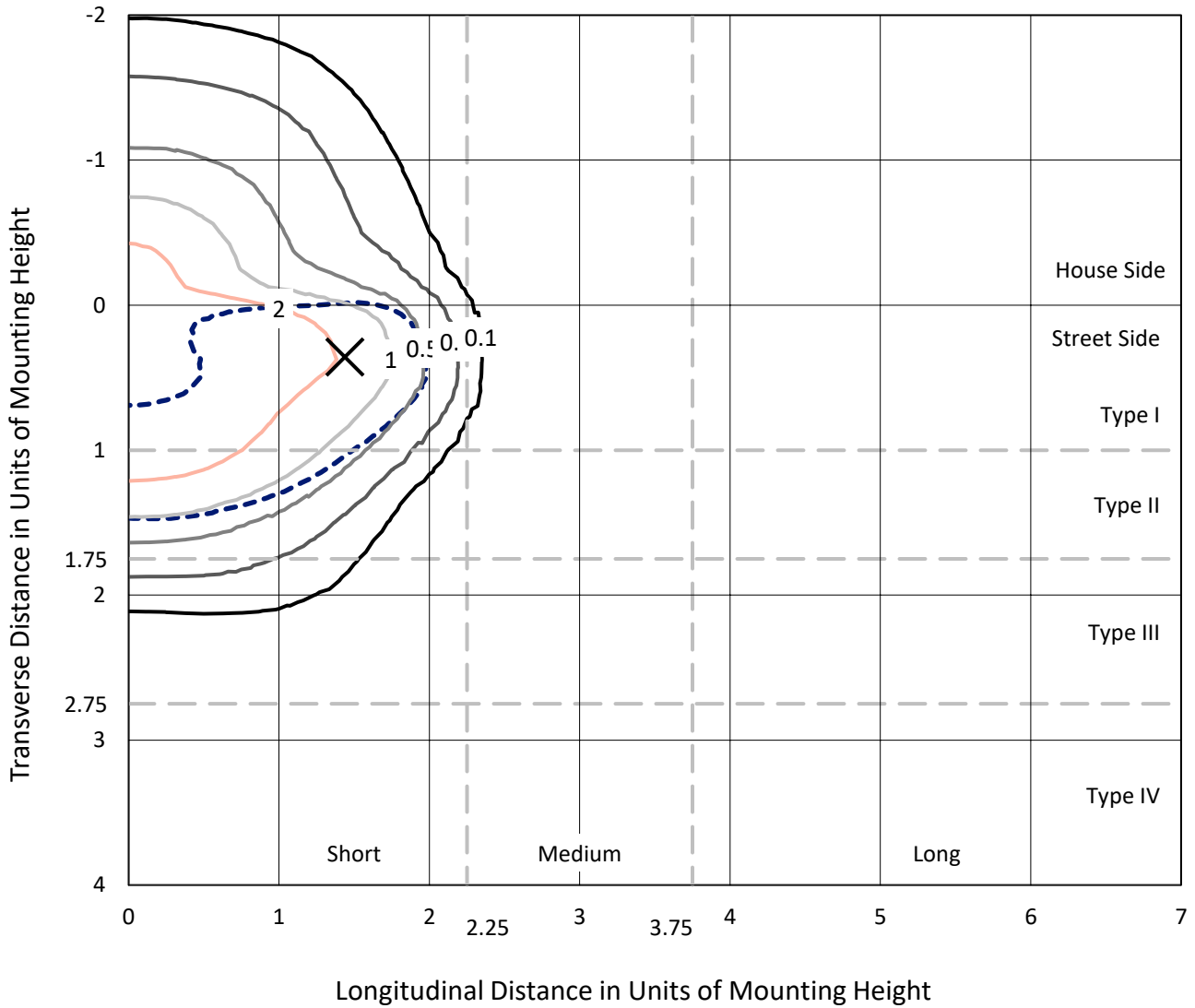
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

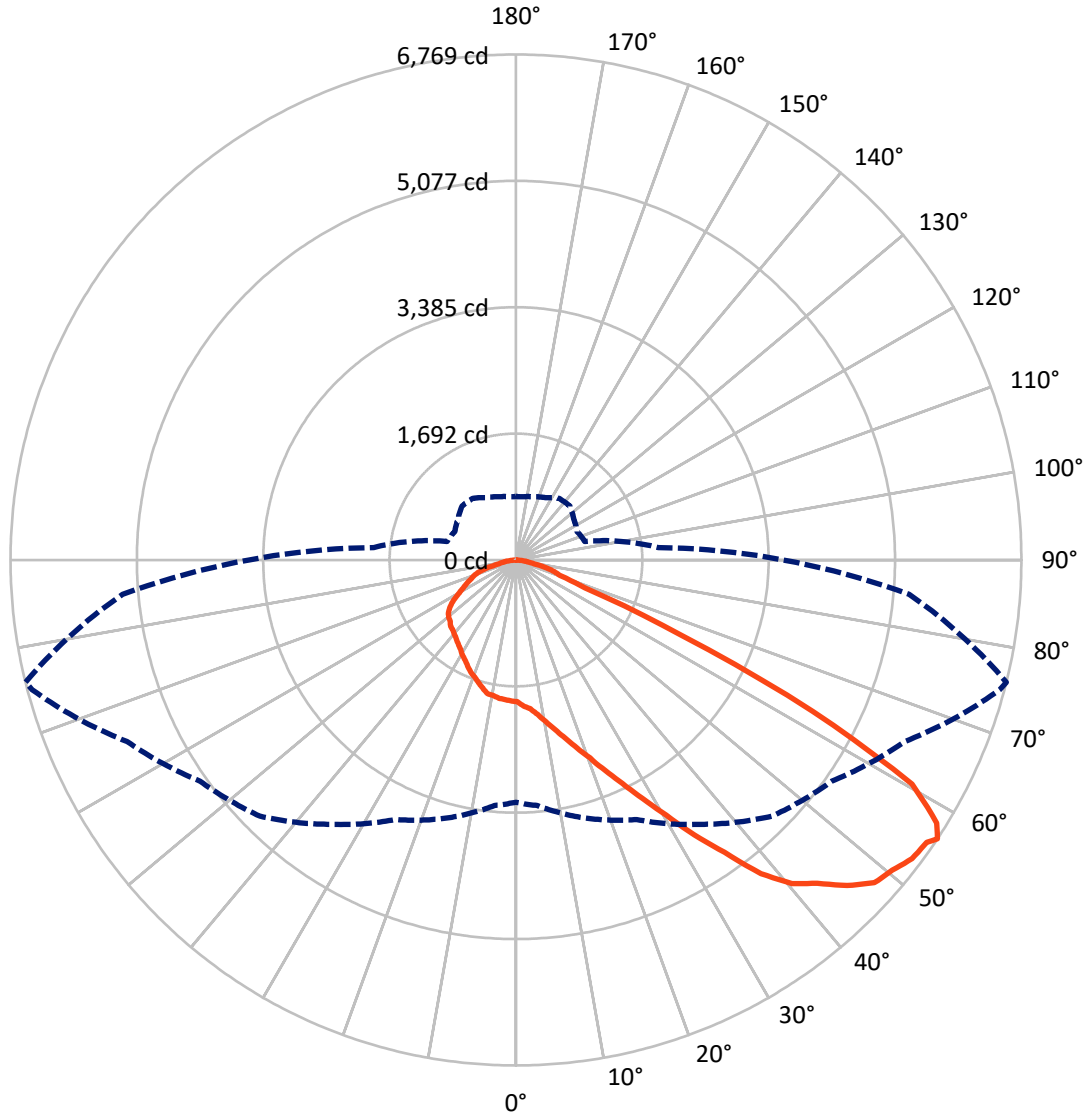
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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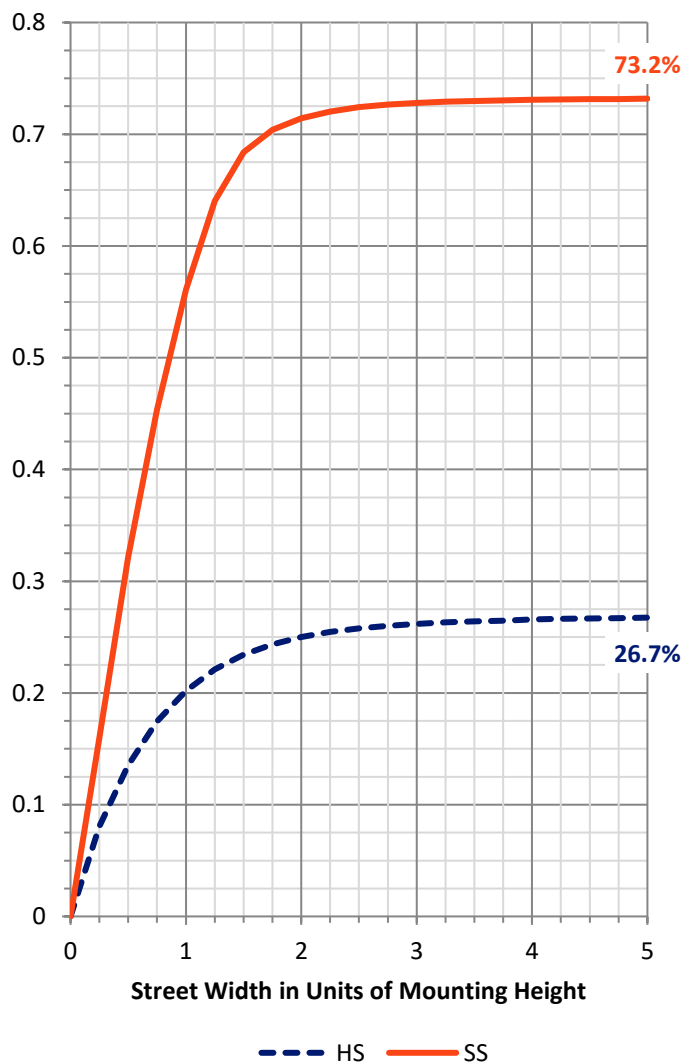
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2666.7	0.0	2666.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7251.4	0.0	7251.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	9918.0	0.0	9918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	1.9
10°-20°	591.2	6.0
20°-30°	1033.9	10.4
30°-40°	1618.8	16.3
40°-50°	2354.8	23.7
50°-60°	2588.1	26.1
60°-70°	1155.2	11.6
70°-80°	333.7	3.4
80°-90°	54.1	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°	9918.0	100.0
0°-180°	9918.0	100.0

Coefficient of Utilization

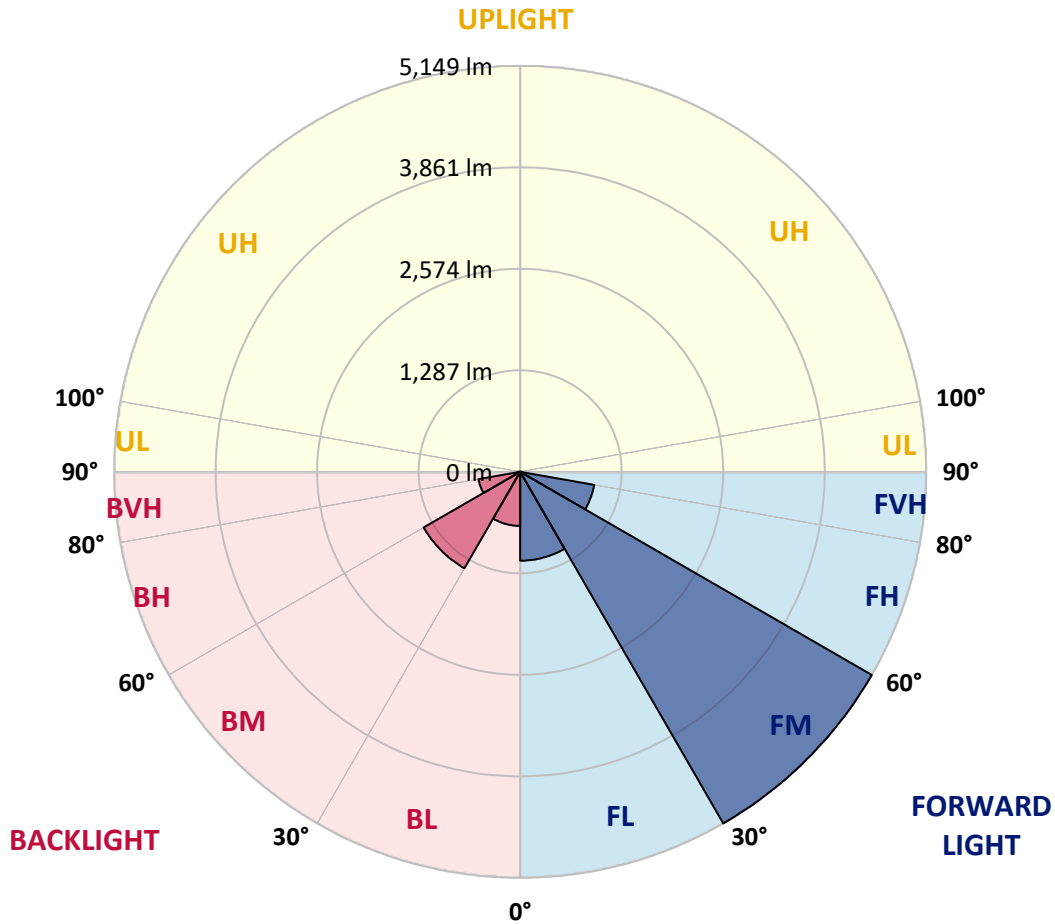


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.1	11.4			
FM (30°-60°)	5148.6	51.9			
FH (60°-80°)	952.4	9.6			G1/1800
FVH (80°-90°)	23.3	0.2			G1/100
BL (0°-30°)	686.2	6.9	B2/1000		
BM (30°-60°)	1413.1	14.2	B2/2500		
BH (60°-80°)	536.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	30.8	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°	1897.7	1897.7	1897.7	1897.7	1897.7	1897.7	1897.7	1897.7	1897.7	1897.7	1897.7
2.5°	2090.5	2057.1	2054.5	2045.5	2050.7	2027.5	2003.1	1971.0	1937.5	1958.1	1909.3
5°	2237.1	2192.1	2210.1	2179.2	2183.1	2152.2	2102.1	2064.8	2023.7	1999.3	1964.5
7.5°	2288.5	2292.4	2305.2	2300.1	2274.4	2274.4	2241.0	2175.4	2103.4	2089.3	2031.4
10°	2358.0	2359.2	2345.1	2349.0	2385.0	2368.2	2338.7	2310.4	2217.8	2201.1	2098.2
12.5°	2382.4	2359.2	2382.4	2403.0	2445.4	2468.5	2462.1	2441.5	2342.5	2331.0	2180.5
15°	2386.2	2372.1	2391.4	2437.7	2475.0	2572.7	2621.5	2607.4	2476.2	2477.5	2273.1
17.5°	2368.2	2387.5	2395.2	2435.1	2521.2	2612.5	2754.0	2773.2	2665.2	2648.5	2390.1
20°	2392.7	2378.5	2388.8	2424.8	2539.2	2682.0	2867.1	2994.4	2842.7	2831.1	2511.0
22.5°	2486.5	2467.2	2464.7	2487.8	2570.1	2718.0	2986.7	3215.5	3058.7	3065.1	2661.4
25°	2559.8	2570.1	2561.1	2559.8	2611.2	2772.0	3144.8	3479.1	3351.8	3314.5	2838.8
27.5°	2685.8	2710.2	2692.2	2716.7	2705.1	2853.0	3257.9	3770.9	3668.1	3617.9	2999.5
30°	2860.7	2873.5	2856.8	2856.8	2822.1	2966.1	3360.8	4075.6	4033.2	3965.1	3188.5
32.5°	3090.8	3110.1	3076.7	3057.4	3052.2	3134.5	3545.9	4376.5	4448.5	4390.6	3439.2
35°	3395.5	3383.9	3344.1	3326.1	3256.7	3392.9	3821.1	4722.3	4911.3	4808.5	3742.7
37.5°	3664.2	3646.2	3643.7	3543.4	3560.1	3671.9	4055.1	4984.6	5360.1	5330.5	4062.8
40°	3914.9	3931.6	3958.6	3902.1	3876.4	3999.8	4327.6	5185.2	5708.5	5696.9	4309.6
42.5°	4183.6	4168.2	4215.8	4168.2	4129.6	4304.5	4623.3	5324.1	6014.5	5919.3	4568.1
45°	4573.2	4524.4	4541.1	4544.9	4516.6	4580.9	4745.5	5424.3	6229.2	6218.9	4757.1
47.5°	4898.5	4899.8	4871.5	4849.6	4763.5	4827.8	4881.8	5487.3	6476.0	6459.3	4830.3
50°	5019.3	5002.6	5084.9	5132.5	5137.6	5006.5	4988.5	5522.0	6605.9	6532.6	4903.6
52.5°	4584.8	4600.2	4730.1	5012.9	5176.2	5190.3	5113.2	5594.0	6658.6	6643.2	4962.8
55°	3689.9	3764.5	3977.9	4304.5	4691.5	5117.1	5248.2	5668.6	6686.9	6674.0	5225.1
56°	3243.8	3301.7	3579.4	3835.2	4321.2	4850.9	5163.3	5748.3	6708.7	6769.2	5286.8
57.5°	2611.2	2678.1	2877.4	3167.9	3741.4	4344.4	4929.3	5650.6	6623.9	6647.0	5331.8
60°	1632.8	1639.3	1878.4	2070.0	2473.7	3062.5	3761.9	4916.5	6130.2	6096.8	4789.2
62.5°	1071.0	1072.3	1289.5	1446.4	1630.3	1765.3	2214.0	3260.5	4523.1	4463.9	3409.7
65°	752.1	768.8	937.3	1146.8	1221.4	1150.7	1136.6	1719.0	2526.4	2441.5	1832.1
67.5°	550.3	551.6	700.7	925.7	1033.7	875.6	711.0	839.6	1000.3	997.7	848.6
70°	363.9	379.3	493.7	691.7	815.1	703.3	581.1	600.4	636.4	636.4	631.3
72.5°	212.1	226.3	302.1	438.4	457.7	439.7	460.3	514.3	537.4	536.1	529.7
75°	120.9	127.3	144.0	182.6	227.6	268.7	338.1	389.6	412.7	426.8	410.1
77.5°	70.7	74.6	84.9	104.1	118.3	145.3	183.9	219.9	250.7	246.9	249.4
80°	37.3	37.3	47.6	61.7	82.3	102.9	122.1	142.7	159.4	163.3	167.1
82.5°	21.9	23.1	30.9	45.0	59.1	73.3	93.9	108.0	123.4	124.7	127.3
85°	11.6	12.9	19.3	29.6	39.9	45.0	46.3	43.7	47.6	45.0	51.4
87.5°	3.9	3.9	6.4	5.1	5.1	6.4	7.7	7.7	10.3	10.3	10.3
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°	1897.7	1897.7	1897.7	1897.7	1897.7	1897.7	1897.7	1897.7	1897.7	1897.7	1897.7
2.5°	1908.0	1908.0	1886.1	1845.0	1838.5	1821.8	1806.4	1805.1	1793.5	1783.3	1778.1
5°	1944.0	1904.1	1872.0	1834.7	1791.0	1770.4	1747.3	1721.5	1711.3	1721.5	1720.3
7.5°	1985.1	1951.7	1855.3	1785.8	1735.7	1715.1	1689.4	1662.4	1665.0	1665.0	1647.0
10°	2025.0	1980.0	1825.7	1737.0	1663.7	1648.3	1634.1	1644.4	1657.3	1659.8	1648.3
12.5°	2091.8	1990.3	1811.5	1688.1	1641.8	1608.4	1617.4	1645.7	1672.7	1665.0	1674.0
15°	2142.0	1999.3	1747.3	1638.0	1580.1	1595.5	1627.7	1647.0	1692.0	1686.8	1695.8
17.5°	2190.8	2004.4	1684.3	1571.1	1546.7	1589.1	1613.5	1668.8	1683.0	1713.8	1725.4
20°	2291.1	2014.7	1620.0	1530.0	1522.3	1571.1	1613.5	1639.3	1670.1	1697.1	1697.1
22.5°	2342.5	2009.5	1577.5	1476.0	1500.4	1531.3	1569.8	1613.5	1613.5	1639.3	1640.5
25°	2406.8	1989.0	1510.7	1450.3	1468.3	1497.8	1541.5	1526.1	1542.8	1542.8	1563.4
27.5°	2480.1	1945.3	1452.8	1404.0	1440.0	1472.1	1478.5	1468.3	1449.0	1446.4	1438.7
30°	2539.2	1891.3	1410.4	1388.5	1418.1	1436.1	1415.5	1393.7	1360.3	1357.7	1339.7
32.5°	2620.2	1824.4	1357.7	1350.0	1383.4	1384.7	1378.3	1344.8	1296.0	1275.4	1254.8
35°	2756.5	1785.8	1317.8	1329.4	1339.7	1335.8	1324.3	1288.3	1239.4	1230.4	1222.7
37.5°	2856.8	1757.5	1276.7	1290.8	1299.8	1305.0	1270.3	1230.4	1231.7	1213.7	1208.6
40°	2969.9	1739.5	1243.3	1249.7	1251.0	1267.7	1225.3	1206.0	1215.0	1203.4	1211.1
42.5°	3115.2	1744.7	1208.6	1203.4	1227.8	1221.4	1200.8	1175.1	1180.3	1145.6	1150.7
45°	3192.4	1779.4	1188.0	1164.8	1191.8	1190.6	1163.6	1139.1	1108.3	1041.4	1044.0
47.5°	3243.8	1788.4	1139.1	1123.7	1152.0	1168.7	1137.8	1081.3	1037.6	990.0	978.4
50°	3296.5	1805.1	1116.0	1083.8	1095.4	1135.3	1096.7	1042.7	1000.3	957.8	964.3
52.5°	3342.8	1837.3	1071.0	1023.4	1044.0	1087.7	1067.1	1001.6	955.3	920.6	910.3
55°	3548.5	1909.3	995.1	933.4	982.3	1037.6	1026.0	946.3	896.1	878.1	875.6
56°	3580.7	1911.8	955.3	902.6	947.6	1020.8	1006.7	921.8	876.8	848.6	849.8
57.5°	3585.8	1881.0	898.7	874.3	912.8	996.4	978.4	902.6	840.8	815.1	807.4
60°	3155.1	1468.3	828.0	812.6	857.6	921.8	915.4	849.8	780.4	750.8	765.0
62.5°	2151.0	1076.1	772.7	770.1	793.3	856.3	839.6	780.4	722.6	703.3	694.3
65°	1252.3	816.4	718.7	708.4	727.7	761.1	772.7	711.0	650.6	637.7	633.8
67.5°	739.3	675.0	649.3	632.6	626.1	646.7	655.7	619.7	559.3	541.3	556.7
70°	618.4	600.4	601.7	573.4	558.0	543.8	536.1	504.0	453.8	430.7	424.3
72.5°	533.6	525.8	520.7	495.0	480.8	448.7	415.3	383.1	345.9	326.6	327.9
75°	407.6	405.0	407.6	394.7	370.3	344.6	313.7	272.6	244.3	219.9	225.0
77.5°	243.0	250.7	254.6	249.4	239.1	216.0	196.7	169.7	142.7	123.4	120.9
80°	167.1	173.6	180.0	173.6	163.3	146.6	126.0	105.4	86.1	75.9	73.3
82.5°	127.3	133.7	137.6	131.1	118.3	100.3	86.1	72.0	56.6	46.3	43.7
85°	46.3	52.7	51.4	61.7	66.9	64.3	55.3	42.4	32.1	23.1	21.9
87.5°	12.9	11.6	12.9	12.9	12.9	11.6	10.3	10.3	10.3	6.4	5.1
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)