

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: P528554

Luminaire Tested: **GALN-SA3C-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13557 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

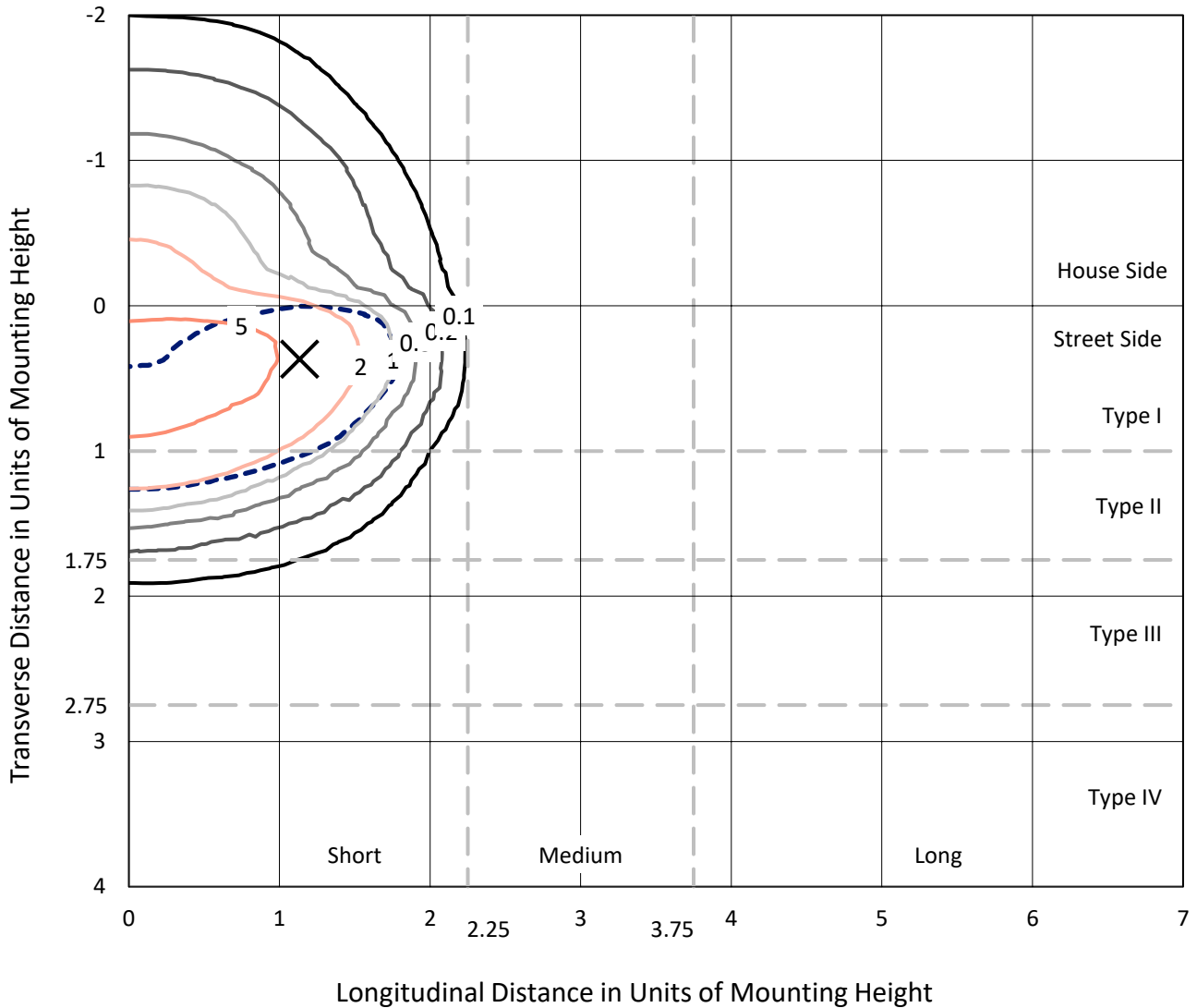
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

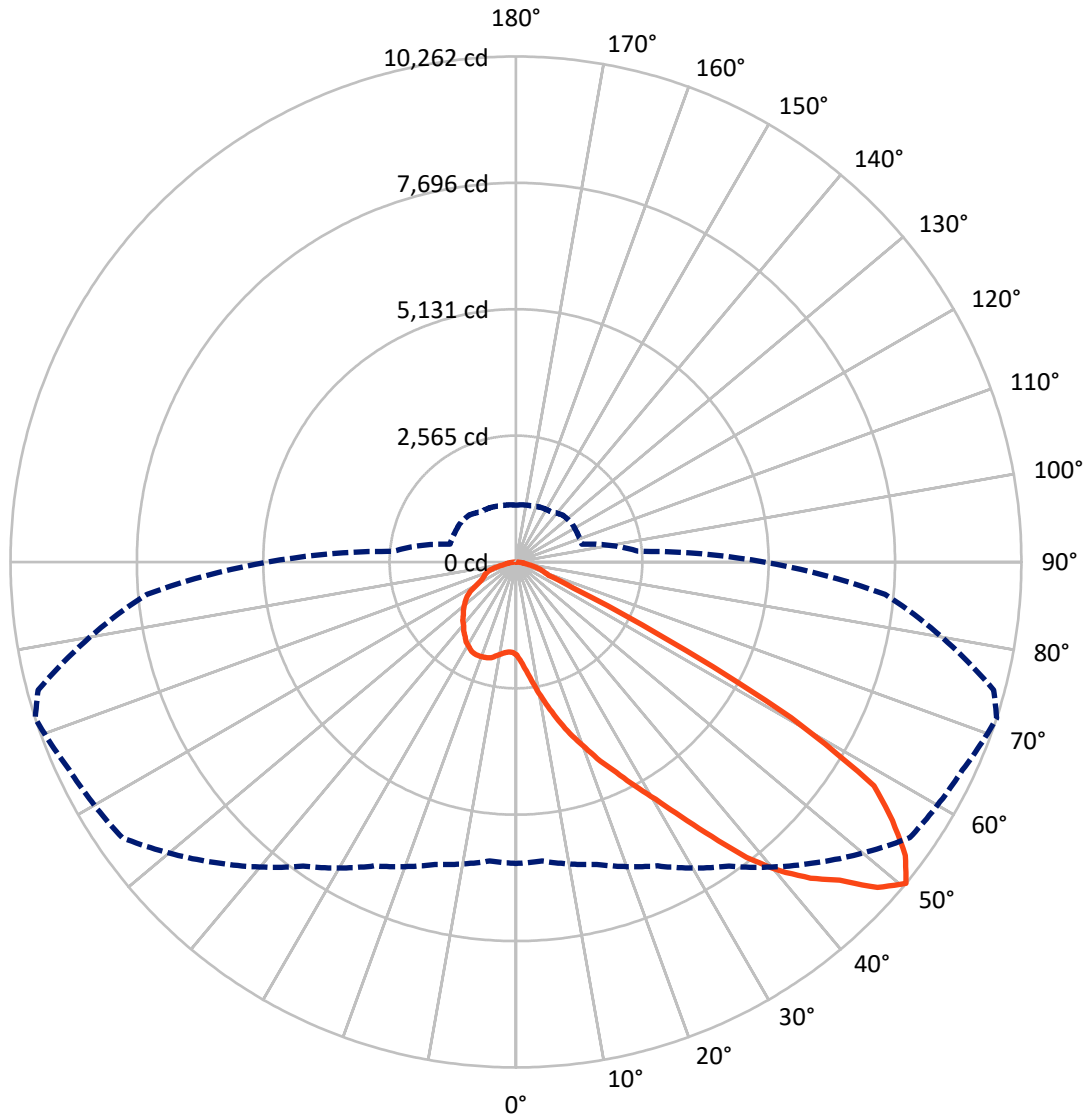
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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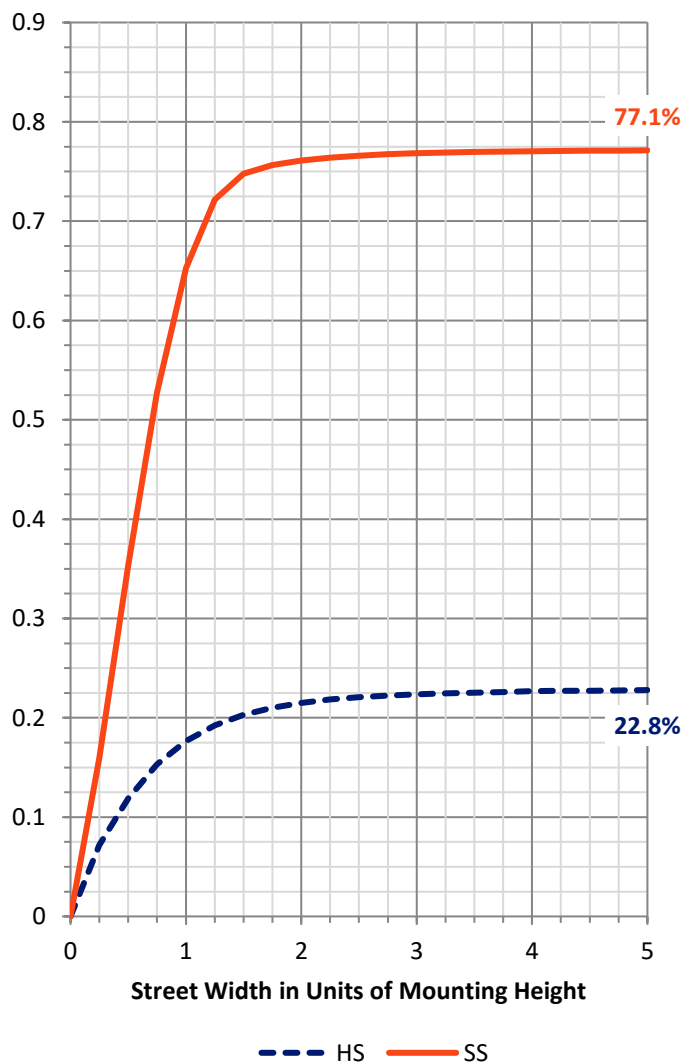
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3106.0	0.0	3106.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10451.0	0.0	10451.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	13557.0	0.0	13557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.0	1.6
10°-20°	829.9	6.1
20°-30°	1609.1	11.9
30°-40°	2665.6	19.7
40°-50°	3729.8	27.5
50°-60°	3146.6	23.2
60°-70°	959.1	7.1
70°-80°	336.5	2.5
80°-90°	58.5	0.4
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°	13557.0	100.0
0°-180°	13557.0	100.0

Coefficient of Utilization



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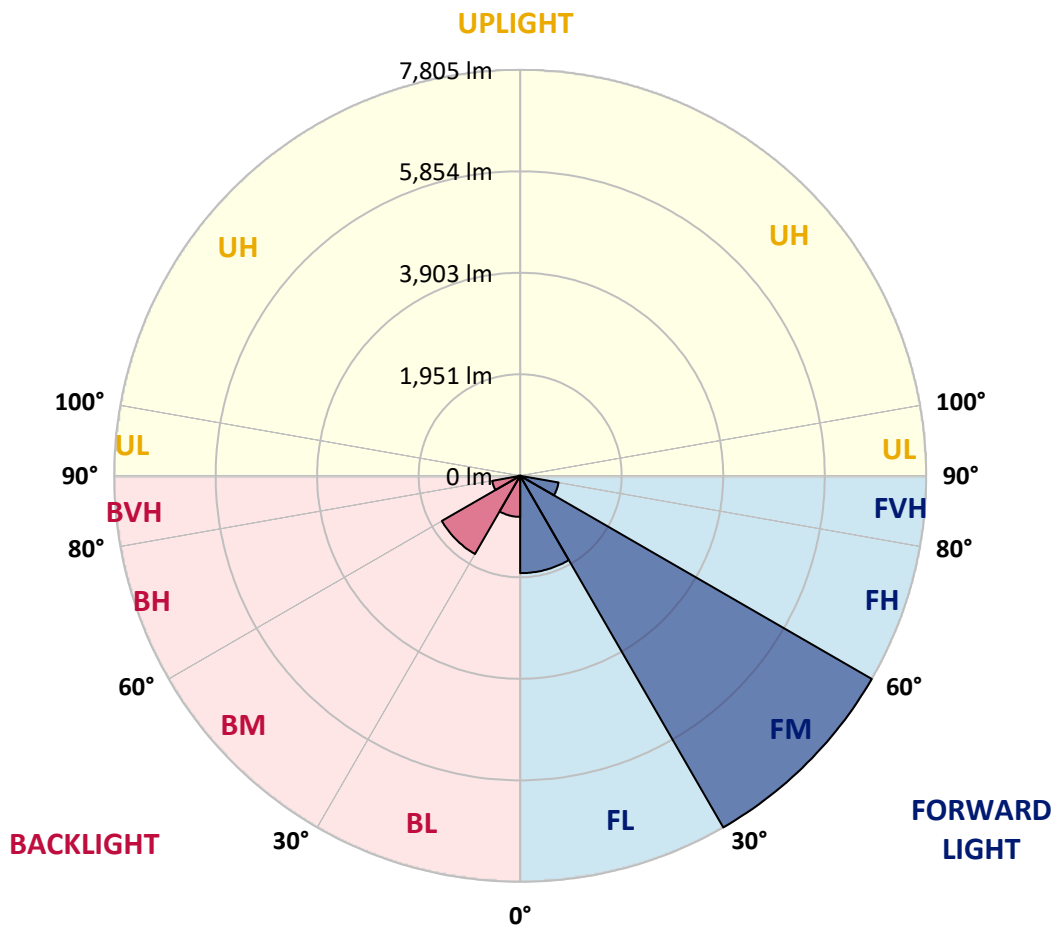
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1871.4	13.8			
FM (30°-60°)	7805.1	57.6			
FH (60°-80°)	748.3	5.5			G1/1800
FVH (80°-90°)	26.2	0.2			G1/100
BL (0°-30°)	789.6	5.8	B2/1000		
BM (30°-60°)	1736.9	12.8	B2/2500		
BH (60°-80°)	547.2	4.0	B2/1000		G2/1000
BVH (80°-90°)	32.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3
2.5°	2427.4	2412.3	2367.0	2351.9	2298.3	2201.0	2167.4	2068.4	2026.5	1987.9	1942.6
5°	3069.9	2999.5	2994.4	2908.9	2784.7	2712.6	2497.9	2353.6	2221.1	2154.0	2029.8
7.5°	3479.3	3480.9	3480.9	3410.5	3311.5	3128.6	2935.7	2675.7	2476.1	2377.1	2165.7
10°	3868.4	3834.9	3816.4	3809.7	3742.6	3564.8	3358.5	3036.4	2762.9	2647.2	2268.1
12.5°	4143.6	4115.0	4157.0	4135.2	4086.5	3970.8	3776.2	3408.8	3066.6	2910.6	2432.5
15°	4274.4	4294.5	4328.1	4388.5	4366.7	4323.1	4108.3	3791.3	3393.7	3217.6	2578.4
17.5°	4475.7	4420.4	4460.6	4536.1	4596.5	4576.4	4453.9	4068.1	3717.5	3501.1	2774.7
20°	4616.6	4584.8	4604.9	4692.1	4737.4	4851.5	4787.7	4430.4	4027.8	3799.7	3006.2
22.5°	5019.2	4972.3	4906.9	4920.3	4937.0	5017.6	5032.7	4828.0	4388.5	4146.9	3225.9
25°	5515.8	5472.2	5395.0	5316.2	5267.5	5252.4	5304.4	5140.0	4734.1	4484.1	3462.5
27.5°	6062.7	5988.9	5940.2	5777.5	5646.7	5626.5	5601.4	5512.4	5143.4	4873.3	3729.2
30°	6594.5	6535.8	6470.3	6210.3	6074.4	6052.6	5928.5	5953.6	5587.9	5287.7	4031.2
32.5°	6997.1	7002.1	6852.8	6656.5	6529.0	6413.3	6368.0	6440.1	6158.3	5916.7	4368.4
35°	7322.5	7337.6	7195.0	7017.2	6879.7	6960.2	6940.0	6973.6	6839.4	6544.1	4760.9
37.5°	7639.6	7564.1	7411.4	7325.9	7253.8	7386.3	7557.4	7585.9	7611.1	7263.8	5217.2
40°	7691.6	7698.3	7609.4	7669.8	7579.2	7778.8	8176.4	8139.5	8241.8	7938.2	5712.1
42.5°	7617.8	7632.9	7668.1	7753.7	7971.7	8211.6	8802.1	8651.2	8775.3	8505.2	6193.5
45°	7497.0	7434.9	7478.5	7804.0	8181.4	8714.9	9374.2	9256.8	9216.5	8990.0	6767.3
47.5°	6919.9	6983.7	7119.5	7520.5	8087.5	8802.1	9780.1	9753.3	9874.1	9714.7	7289.0
50°	6119.7	6094.6	6356.3	6807.5	7538.9	8631.0	9758.3	10001.6	10261.6	10040.2	7522.2
52.5°	4583.1	4717.3	4942.1	5502.4	6545.8	7698.3	9281.9	9687.9	9899.3	9852.3	7334.3
55°	2897.1	2937.4	3073.3	3739.3	4678.7	6178.4	7956.6	8897.8	9275.2	9451.3	7161.5
57.5°	1407.5	1332.0	1498.1	2033.2	2702.5	4155.3	6136.5	7750.3	8570.6	8889.4	6785.7
60°	734.8	763.3	828.7	1020.0	1397.4	2157.3	3824.8	5165.2	6418.3	6908.2	5143.4
62.5°	609.0	619.0	662.6	758.3	929.4	1241.4	1952.7	2518.0	3272.9	3714.1	2925.7
65°	516.7	521.7	568.7	632.4	741.5	874.0	1004.9	1051.8	1273.3	1306.8	1040.1
67.5°	431.1	436.2	486.5	546.9	617.3	652.6	686.1	682.8	707.9	697.9	696.2
70°	332.2	337.2	389.2	452.9	488.2	468.0	572.0	595.5	605.6	614.0	627.4
72.5°	239.9	250.0	290.2	335.5	317.1	364.0	471.4	506.6	520.0	525.1	541.9
75°	174.5	177.8	187.9	174.5	201.3	253.3	332.2	375.8	392.5	397.6	422.7
77.5°	77.2	78.8	80.5	100.7	129.2	157.7	198.0	233.2	256.7	263.4	270.1
80°	40.3	41.9	52.0	68.8	92.3	115.8	144.3	164.4	179.5	181.2	187.9
82.5°	25.2	26.8	36.9	48.6	65.4	85.6	105.7	122.5	134.2	135.9	137.6
85°	11.7	15.1	21.8	30.2	43.6	55.4	57.0	48.6	52.0	53.7	50.3
87.5°	3.4	5.0	6.7	5.0	6.7	6.7	8.4	10.1	10.1	10.1	11.7
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°	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3
2.5°	1917.4	1902.3	1843.6	1821.8	1764.8	1774.9	1744.7	1743.0	1736.3	1734.6	1732.9
5°	1964.4	1917.4	1847.0	1793.3	1761.4	1758.1	1736.3	1736.3	1743.0	1748.0	1736.3
7.5°	2041.6	1987.9	1868.8	1818.5	1790.0	1784.9	1769.8	1758.1	1773.2	1768.1	1754.7
10°	2130.5	2036.6	1910.7	1867.1	1820.1	1808.4	1808.4	1813.4	1788.3	1796.7	1783.2
12.5°	2229.5	2103.7	1964.4	1914.1	1858.7	1852.0	1848.7	1811.8	1825.2	1818.5	1784.9
15°	2355.3	2180.8	2033.2	1947.6	1900.7	1870.5	1826.9	1820.1	1811.8	1795.0	1779.9
17.5°	2491.2	2264.7	2065.1	1957.7	1887.3	1865.4	1831.9	1796.7	1771.5	1774.9	1763.1
20°	2606.9	2341.9	2076.8	1967.8	1877.2	1835.2	1783.2	1761.4	1734.6	1732.9	1731.2
22.5°	2744.5	2445.9	2093.6	1940.9	1847.0	1803.4	1768.1	1729.6	1711.1	1687.6	1699.4
25°	2908.9	2486.1	2096.9	1925.8	1825.2	1748.0	1729.6	1687.6	1680.9	1647.4	1654.1
27.5°	3028.0	2507.9	2070.1	1878.9	1774.9	1716.1	1682.6	1652.4	1640.6	1615.5	1608.8
30°	3187.4	2541.5	2013.1	1820.1	1724.5	1659.1	1639.0	1632.3	1598.7	1571.9	1568.5
32.5°	3368.5	2563.3	1976.2	1759.8	1672.5	1622.2	1632.3	1600.4	1558.4	1535.0	1528.3
35°	3512.8	2571.7	1883.9	1691.0	1637.3	1605.4	1593.7	1587.0	1526.6	1504.8	1488.0
37.5°	3732.6	2553.2	1806.7	1642.3	1598.7	1587.0	1576.9	1531.6	1462.8	1431.0	1407.5
40°	3989.2	2548.2	1707.8	1573.5	1561.8	1575.2	1545.0	1474.6	1379.0	1343.7	1326.9
42.5°	4235.8	2583.4	1645.7	1536.6	1521.5	1526.6	1484.6	1379.0	1332.0	1311.8	1285.0
45°	4648.5	2657.2	1543.4	1479.6	1472.9	1469.5	1419.2	1308.5	1281.7	1256.5	1251.5
47.5°	5020.9	2608.6	1477.9	1420.9	1427.6	1409.1	1301.8	1266.6	1236.4	1211.2	1202.8
50°	5042.7	2492.8	1385.7	1375.6	1377.3	1345.4	1243.1	1219.6	1181.0	1164.2	1152.5
52.5°	4928.7	2303.3	1300.1	1303.5	1308.5	1256.5	1170.9	1154.2	1122.3	1098.8	1092.1
55°	4608.2	2008.0	1216.2	1229.6	1243.1	1144.1	1117.3	1075.3	1050.1	1016.6	1018.3
57.5°	4059.7	1617.2	1098.8	1120.6	1149.1	1040.1	1020.0	967.9	931.0	904.2	900.8
60°	2721.0	1150.8	922.7	931.0	994.8	951.2	949.5	897.5	847.2	823.7	810.3
62.5°	1605.4	879.0	796.8	788.5	786.8	811.9	853.9	835.4	770.0	724.7	738.1
65°	840.5	759.9	741.5	713.0	696.2	689.5	721.3	729.7	686.1	637.5	634.1
67.5°	706.3	706.3	691.2	681.1	657.6	629.1	609.0	582.1	575.4	562.0	545.2
70°	642.5	659.3	654.2	630.8	610.6	578.8	526.8	483.1	441.2	426.1	436.2
72.5°	560.3	577.1	577.1	565.3	538.5	489.8	439.5	389.2	354.0	327.1	323.8
75°	431.1	439.5	459.7	446.2	411.0	380.8	328.8	276.8	243.2	218.1	213.0
77.5°	275.1	288.5	288.5	286.9	261.7	233.2	199.6	162.7	137.6	119.1	114.1
80°	182.9	191.2	198.0	191.2	174.5	152.7	127.5	102.3	83.9	68.8	65.4
82.5°	134.2	144.3	149.3	142.6	125.8	109.0	90.6	72.1	53.7	41.9	38.6
85°	52.0	53.7	60.4	72.1	70.5	68.8	55.4	40.3	30.2	21.8	20.1
87.5°	13.4	11.7	13.4	13.4	11.7	10.1	10.1	10.1	10.1	5.0	6.7
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)