

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: P318198

Luminaire Tested: **GLEON-SA4B-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4B-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16630 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

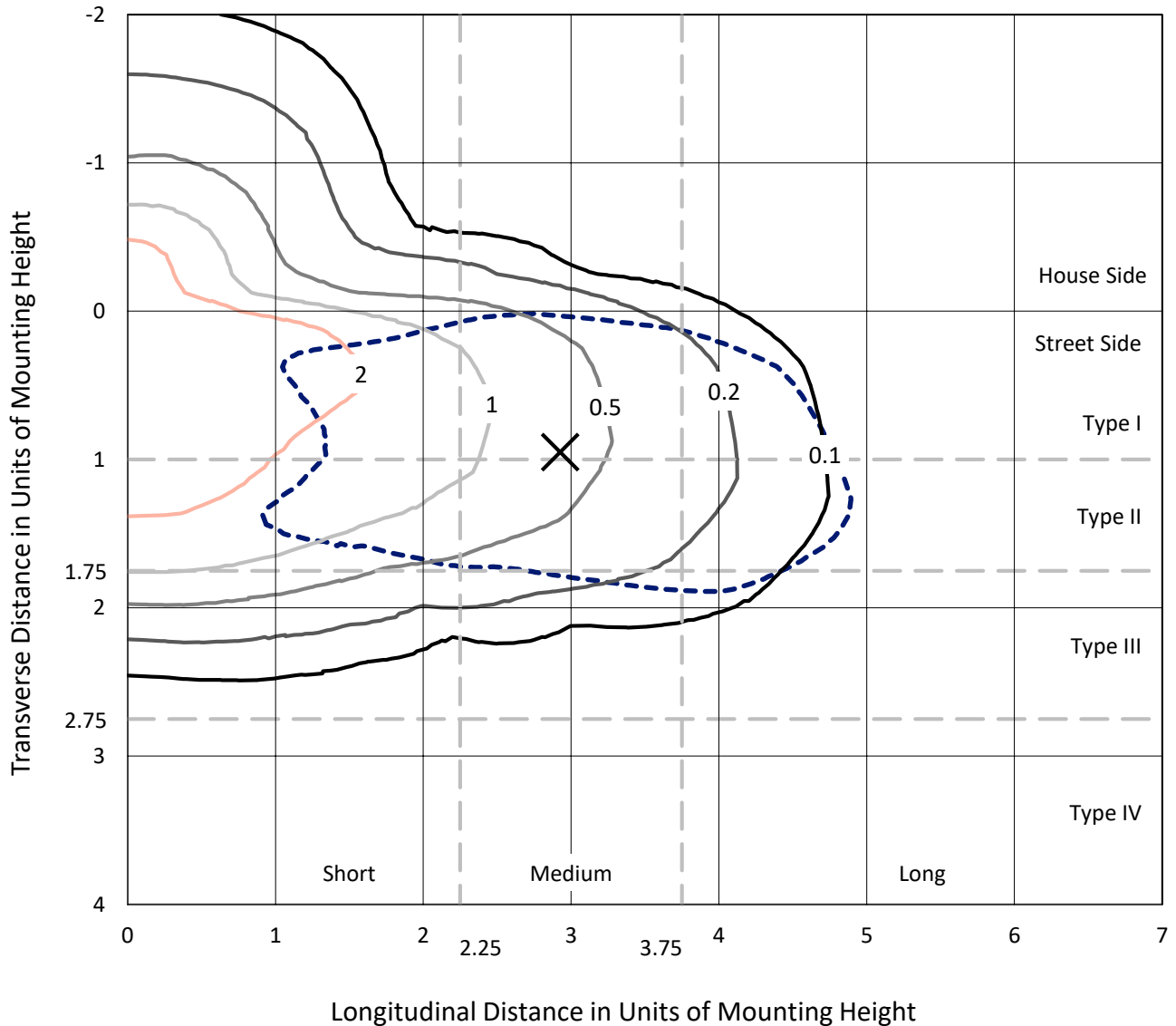
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

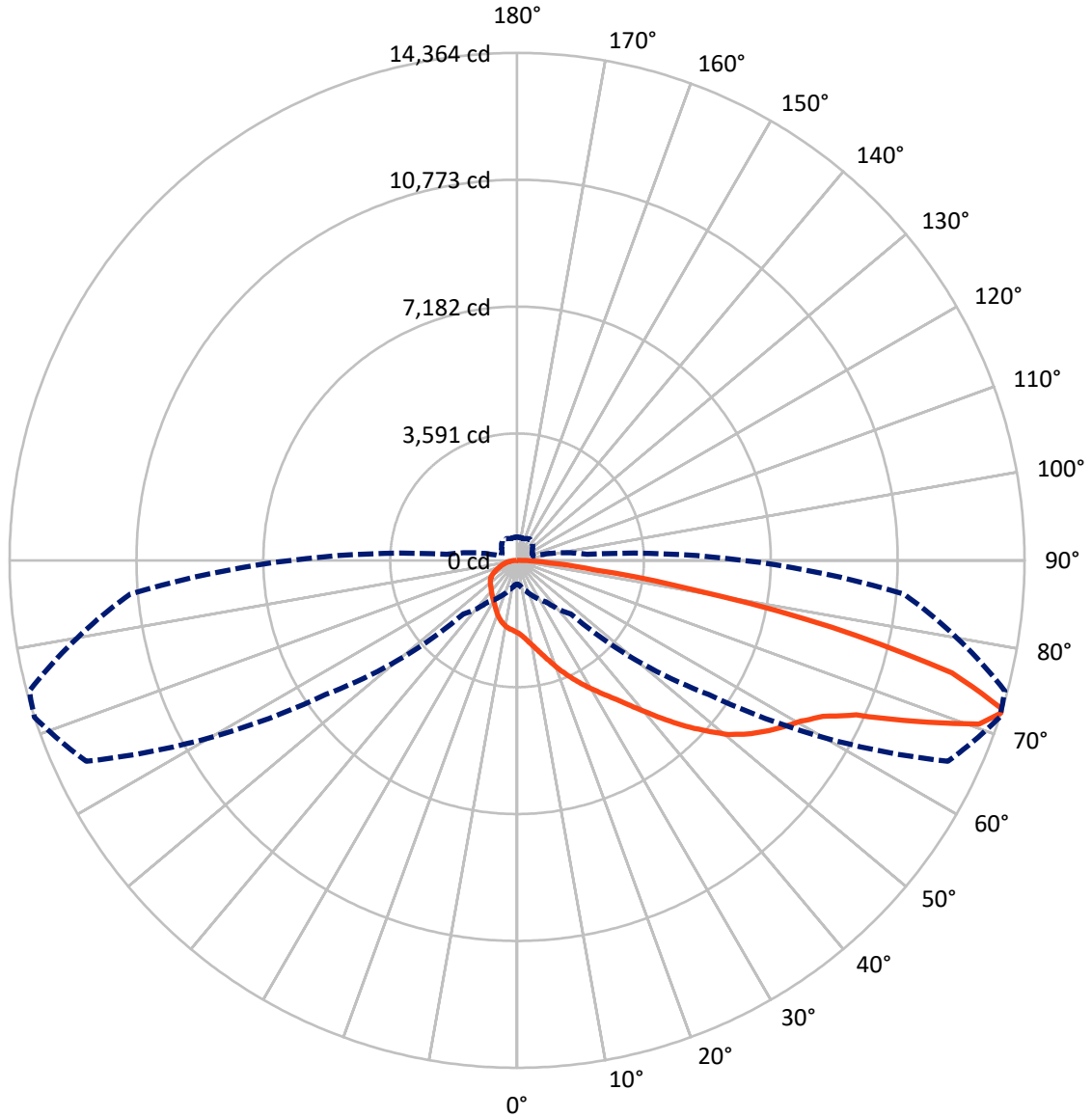
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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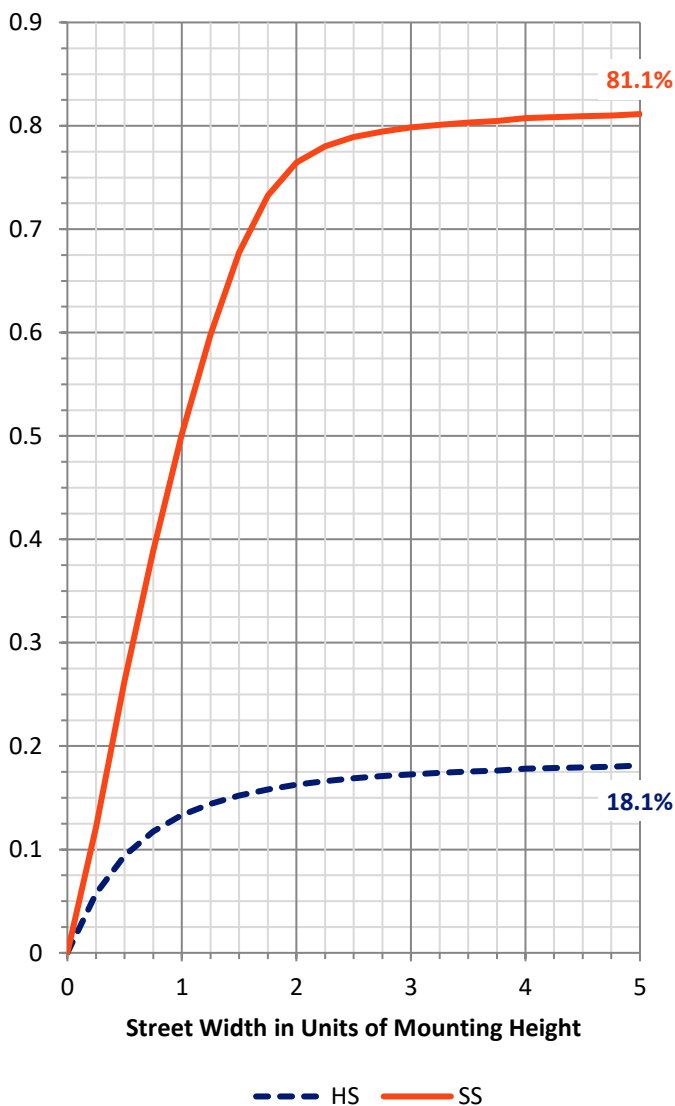
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3085.0	0.0	3085.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	13545.0	0.0	13545.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	16630.0	0.0	16630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.0	1.2
10°-20°	662.5	4.0
20°-30°	1160.9	7.0
30°-40°	1721.2	10.4
40°-50°	2517.4	15.1
50°-60°	3464.0	20.8
60°-70°	3856.4	23.2
70°-80°	2613.1	15.7
80°-90°	429.5	2.6
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°	16630.0	100.0
0°-180°	16630.0	100.0

Coefficient of Utilization

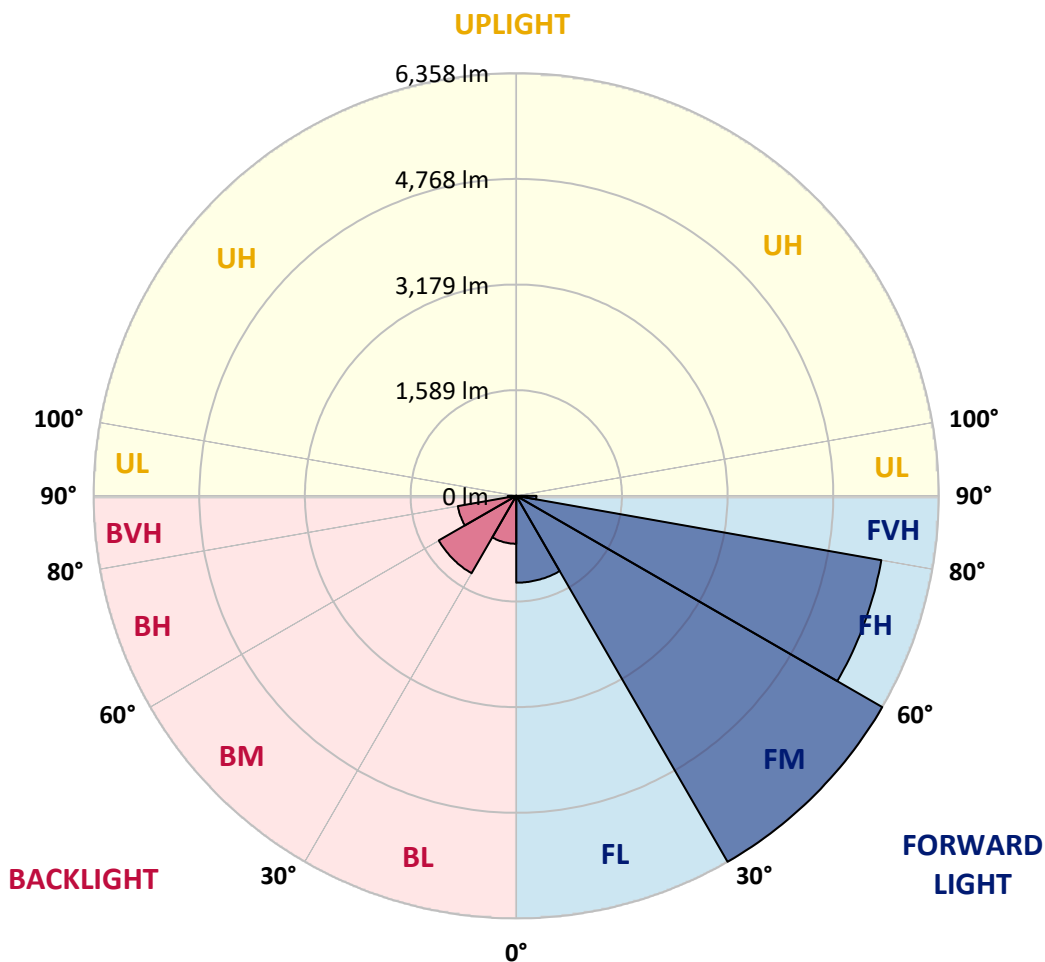


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1307.2	7.9			
FM (30°-60°)	6357.9	38.2			
FH (60°-80°)	5577.0	33.5			G3/7500
FVH (80°-90°)	303.0	1.8			G3/500
BL (0°-30°)	721.2	4.3	B2/1000		
BM (30°-60°)	1344.8	8.1	B2/2500		
BH (60°-80°)	892.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	126.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9
2.5°	2260.1	2256.6	2244.6	2244.6	2221.7	2202.2	2165.6	2141.0	2111.8	2101.5	2067.1
5°	2478.8	2480.0	2465.1	2454.8	2421.0	2379.8	2317.3	2260.7	2204.0	2181.1	2110.6
7.5°	2662.6	2660.3	2656.3	2647.7	2616.2	2573.9	2489.7	2405.5	2321.9	2287.6	2166.2
10°	2780.6	2785.7	2789.2	2793.2	2780.0	2749.7	2670.1	2567.6	2458.2	2411.2	2232.6
12.5°	2840.1	2849.3	2865.3	2892.8	2914.6	2911.1	2853.3	2744.5	2614.5	2555.5	2315.6
15°	2875.1	2887.1	2912.3	2961.5	3022.8	3057.7	3042.3	2943.8	2798.9	2726.2	2417.0
17.5°	2896.8	2906.6	2945.5	3011.3	3102.4	3195.1	3235.8	3153.3	3007.3	2924.3	2533.2
20°	2911.7	2919.1	2967.8	3045.1	3163.1	3310.8	3424.2	3403.6	3236.9	3129.3	2654.6
22.5°	2944.9	2951.2	2997.6	3075.5	3206.0	3396.7	3605.7	3636.6	3479.2	3357.2	2784.6
25°	3037.7	3037.7	3076.6	3131.0	3253.6	3471.1	3759.2	3896.0	3726.5	3584.5	2904.8
27.5°	3214.6	3212.9	3227.2	3246.1	3338.9	3546.7	3896.0	4125.1	3983.1	3827.9	3021.6
30°	3424.2	3435.6	3437.4	3428.2	3471.7	3641.2	4022.6	4366.7	4241.3	4074.1	3141.3
32.5°	3693.9	3701.3	3692.7	3662.4	3656.1	3775.2	4146.8	4619.8	4520.7	4331.2	3250.7
35°	4036.3	4022.0	3995.1	3933.2	3874.3	3954.4	4288.8	4872.9	4834.5	4642.1	3401.3
37.5°	4403.3	4403.9	4370.7	4230.4	4149.1	4183.5	4484.7	5159.8	5214.2	5012.0	3594.3
40°	4697.7	4713.1	4733.7	4549.4	4444.0	4491.5	4733.7	5492.4	5663.1	5450.6	3845.6
42.5°	4903.2	4921.0	4979.4	4863.7	4754.4	4842.5	5026.9	5847.5	6167.0	5956.8	4139.9
45°	5120.8	5130.6	5171.8	5122.0	5052.1	5250.8	5357.3	6215.1	6700.1	6496.2	4469.2
47.5°	5349.9	5360.2	5402.5	5369.3	5332.7	5632.2	5702.0	6561.5	7210.8	7088.9	4820.8
50°	5632.7	5639.6	5679.7	5619.6	5631.0	5919.6	6010.1	6879.3	7746.2	7621.4	5173.5
52.5°	6018.7	6020.4	6075.9	6021.5	5967.7	6130.3	6275.2	7178.8	8165.9	8107.0	5526.2
55°	6321.0	6339.3	6521.4	6510.0	6479.0	6321.6	6496.8	7463.9	8540.4	8568.5	5900.7
57.5°	6128.0	6199.6	6568.4	6828.3	7081.4	6797.4	6796.3	7785.2	8888.6	9021.4	6312.4
60°	5367.0	5464.4	6007.8	6584.4	7376.3	7625.4	7418.1	8177.4	9240.2	9470.3	6828.3
62.5°	3833.0	3993.4	4729.7	5650.5	6972.1	8174.0	8683.6	8799.8	9718.3	9990.3	7498.9
65°	1937.7	2059.1	2676.4	3785.5	5570.3	7815.5	10059.0	10162.6	10549.1	10790.8	8531.3
67.5°	1177.3	1223.1	1524.3	2105.5	3415.0	6088.0	10507.9	12434.2	12157.0	12285.3	10003.4
70°	867.5	901.3	1089.1	1398.3	1964.0	3572.5	9130.2	14055.2	13873.1	13858.8	11091.4
72°	675.7	700.3	866.4	1129.8	1436.1	2143.3	6617.6	13456.8	14364.4	14292.3	10991.8
72.5°	640.7	662.5	813.7	1063.3	1357.1	1942.9	5950.0	13053.1	14328.9	14296.3	10862.9
75°	504.5	519.9	602.4	822.3	1062.2	1102.3	3260.4	10115.7	12711.3	13239.8	9770.4
77.5°	417.4	419.7	463.2	598.4	828.0	779.3	1601.6	7018.4	9102.2	9683.4	6921.1
80°	340.1	343.0	363.6	419.7	626.4	576.6	760.4	4035.7	5096.2	5102.5	3291.3
82.5°	270.8	271.4	294.3	306.9	450.1	412.3	435.8	1894.8	2226.9	2142.1	1183.0
85°	190.7	186.7	287.4	251.9	294.3	264.5	240.5	750.1	920.8	880.7	370.5
87.5°	63.6	65.8	127.7	163.2	171.8	150.0	107.1	287.4	347.6	344.7	117.4
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°	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9
2.5°	2056.2	2037.9	2011.0	1981.2	1957.7	1933.7	1915.9	1906.8	1896.5	1887.9	1898.2
5°	2078.0	2043.6	1986.4	1930.3	1889.0	1852.4	1826.0	1812.3	1799.7	1791.1	1792.3
7.5°	2113.5	2057.9	1961.8	1879.9	1822.6	1783.1	1756.2	1747.0	1739.0	1736.7	1739.6
10°	2151.3	2069.4	1929.1	1820.3	1755.0	1722.4	1710.4	1716.7	1722.4	1727.6	1733.3
12.5°	2194.2	2079.7	1881.6	1750.5	1694.9	1682.3	1694.3	1721.8	1741.9	1753.9	1761.3
15°	2250.3	2088.9	1826.6	1680.6	1643.4	1657.7	1698.4	1745.9	1780.8	1803.1	1806.6
17.5°	2301.9	2088.3	1756.2	1610.2	1601.6	1643.4	1704.7	1771.6	1818.6	1850.1	1856.4
20°	2355.1	2072.8	1674.3	1541.5	1559.2	1627.9	1707.5	1788.3	1844.9	1881.6	1890.2
22.5°	2404.9	2045.9	1584.4	1479.0	1523.7	1607.3	1696.6	1778.5	1835.2	1865.0	1874.1
25°	2438.7	1999.0	1493.4	1426.4	1492.2	1582.1	1661.1	1727.0	1769.4	1784.2	1786.5
27.5°	2455.9	1937.7	1407.5	1380.6	1459.6	1540.9	1595.3	1627.9	1639.9	1638.8	1636.5
30°	2458.2	1857.0	1333.6	1343.3	1421.8	1480.2	1506.0	1499.7	1484.2	1457.9	1460.1
32.5°	2450.8	1765.9	1271.8	1307.8	1373.7	1406.3	1407.5	1377.1	1335.9	1294.1	1282.6
35°	2453.0	1676.6	1217.4	1267.8	1315.3	1329.6	1316.4	1271.8	1215.6	1161.8	1150.4
37.5°	2478.2	1598.7	1170.4	1221.4	1250.6	1254.0	1235.1	1188.2	1146.9	1094.3	1089.7
40°	2538.4	1543.2	1125.7	1169.3	1185.9	1187.6	1160.7	1127.5	1130.9	1102.8	1102.3
42.5°	2646.6	1519.1	1086.2	1114.9	1125.2	1128.6	1108.0	1086.8	1116.6	1098.3	1092.0
45°	2786.3	1524.9	1053.0	1061.6	1080.5	1096.5	1083.9	1058.2	1069.6	990.0	963.7
47.5°	2947.8	1561.5	1026.7	1015.8	1048.4	1078.8	1059.3	1020.4	979.7	900.7	885.8
50°	3136.7	1618.2	1002.6	970.6	1013.5	1054.7	1035.3	979.7	918.5	880.1	874.9
52.5°	3333.7	1687.5	978.6	920.8	969.4	1036.4	1026.7	970.6	895.0	857.2	850.3
55°	3557.0	1757.3	948.2	862.9	921.9	1027.8	1022.7	937.4	877.2	856.0	850.9
57.5°	3834.7	1836.9	908.2	802.8	877.2	996.9	980.9	917.3	858.9	842.9	841.2
60°	4196.6	1954.3	850.3	738.7	822.8	949.4	945.9	888.1	829.7	818.3	816.0
62.5°	4739.5	2148.4	770.7	674.5	762.1	868.6	900.1	848.6	798.8	798.2	799.4
65°	5581.2	2440.4	684.3	618.4	700.9	800.5	846.9	807.9	767.3	778.7	780.5
67.5°	6556.9	2682.7	599.5	563.4	638.5	735.8	798.8	767.3	725.5	755.3	755.8
70°	6881.6	2466.2	525.1	509.0	573.8	673.4	746.7	722.6	680.3	710.0	707.2
72°	6404.0	1991.0	477.0	467.8	525.1	621.9	700.3	680.8	639.0	659.1	651.6
72.5°	6253.4	1898.2	465.0	457.5	511.9	608.7	688.3	670.5	628.7	645.9	639.0
75°	5578.3	1648.5	399.7	401.4	446.6	544.5	620.7	615.0	572.0	573.8	571.5
77.5°	4046.0	1208.8	336.7	348.1	380.2	478.7	552.6	549.1	502.2	493.6	491.9
80°	1877.6	616.7	274.3	279.4	312.6	400.3	471.3	466.7	428.9	418.0	411.7
82.5°	643.0	293.2	206.1	209.6	242.2	322.4	408.8	406.0	374.5	353.3	340.1
85°	229.6	146.0	144.3	140.9	172.9	253.7	356.2	340.7	294.3	250.8	249.7
87.5°	74.4	62.4	74.4	73.9	100.8	171.8	258.8	220.5	213.6	177.5	174.1
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)