

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: P318190

Luminaire Tested: **GLEON-SA6A-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318190
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-SA6A-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20108 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

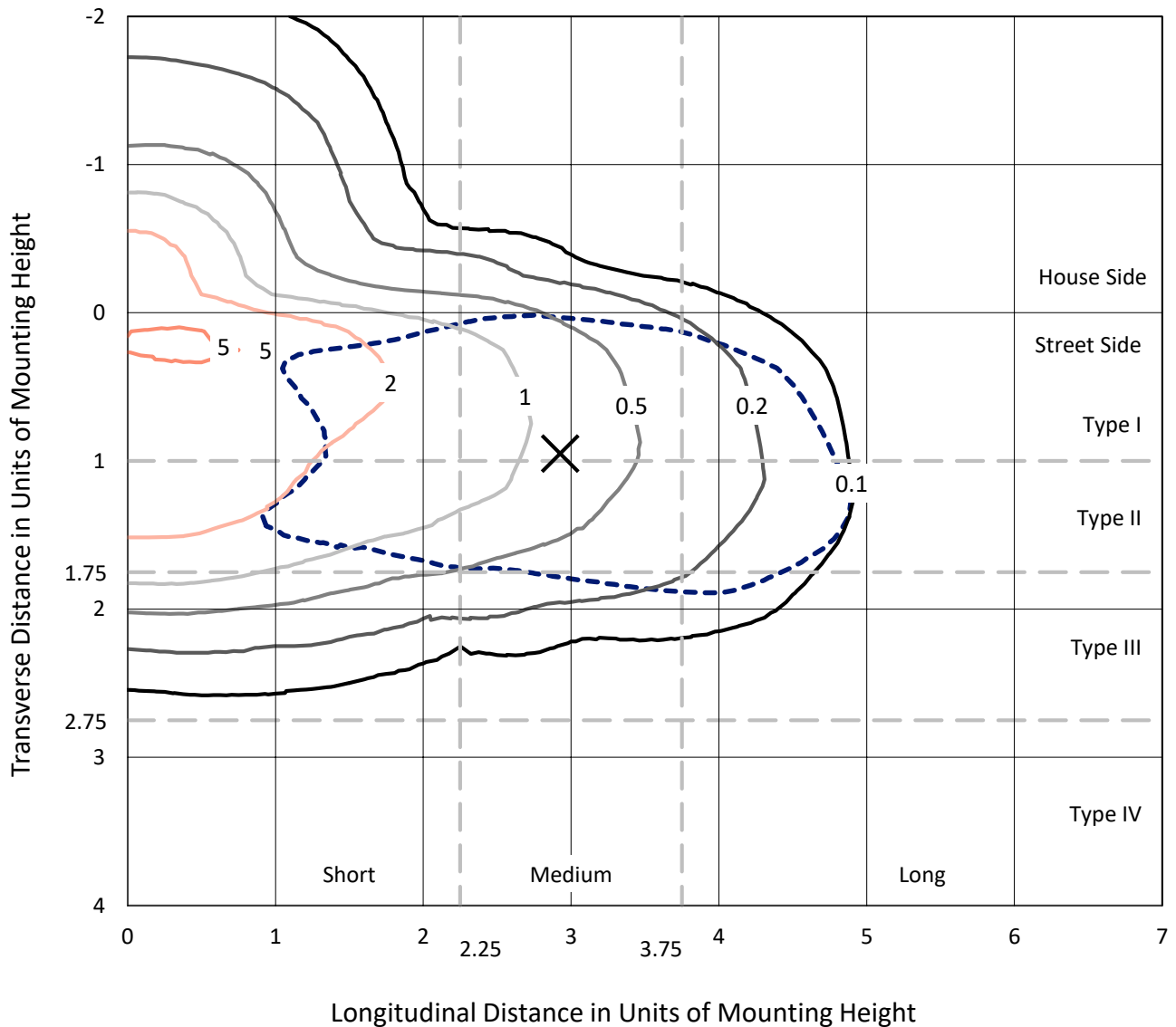
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

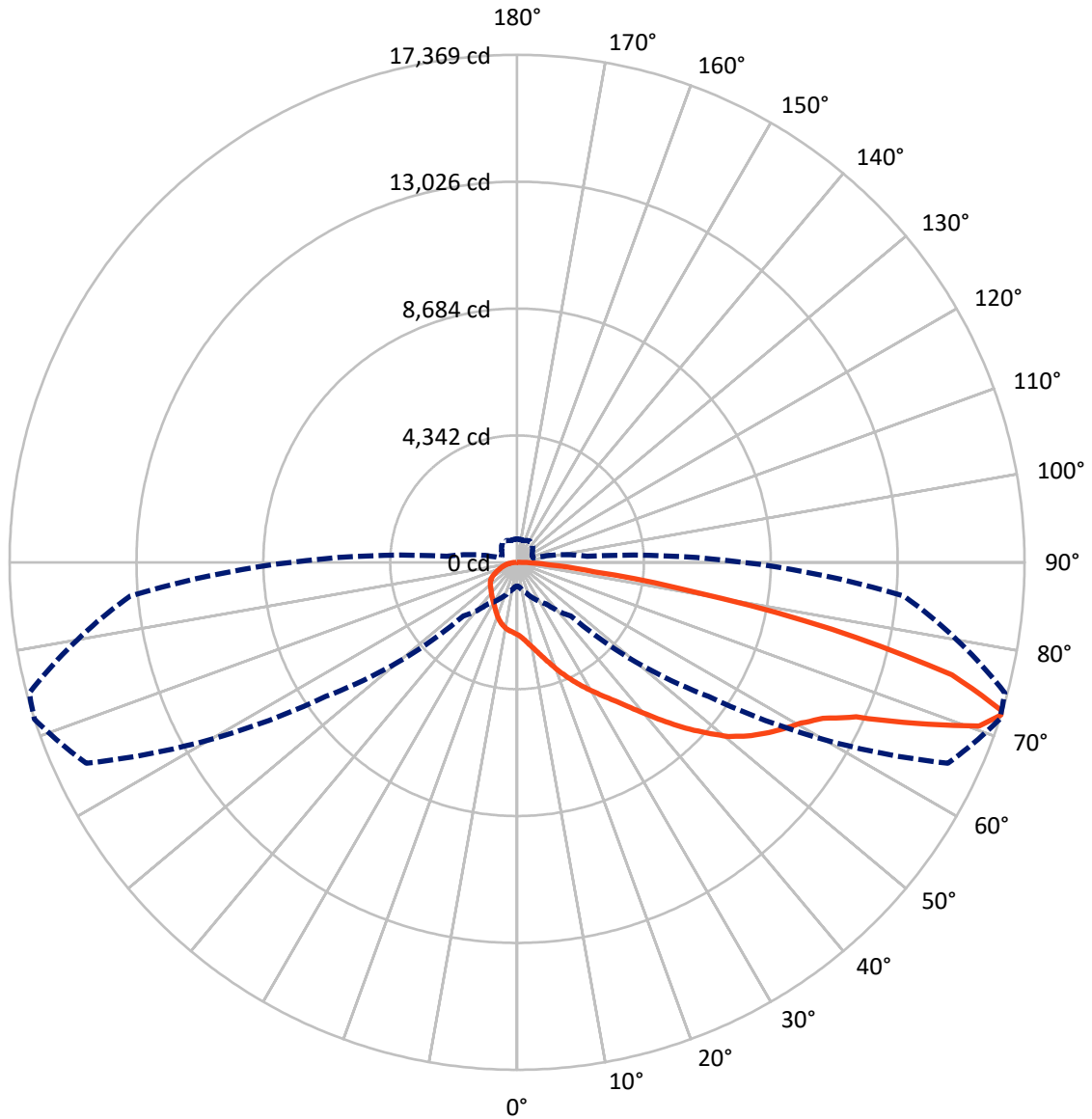
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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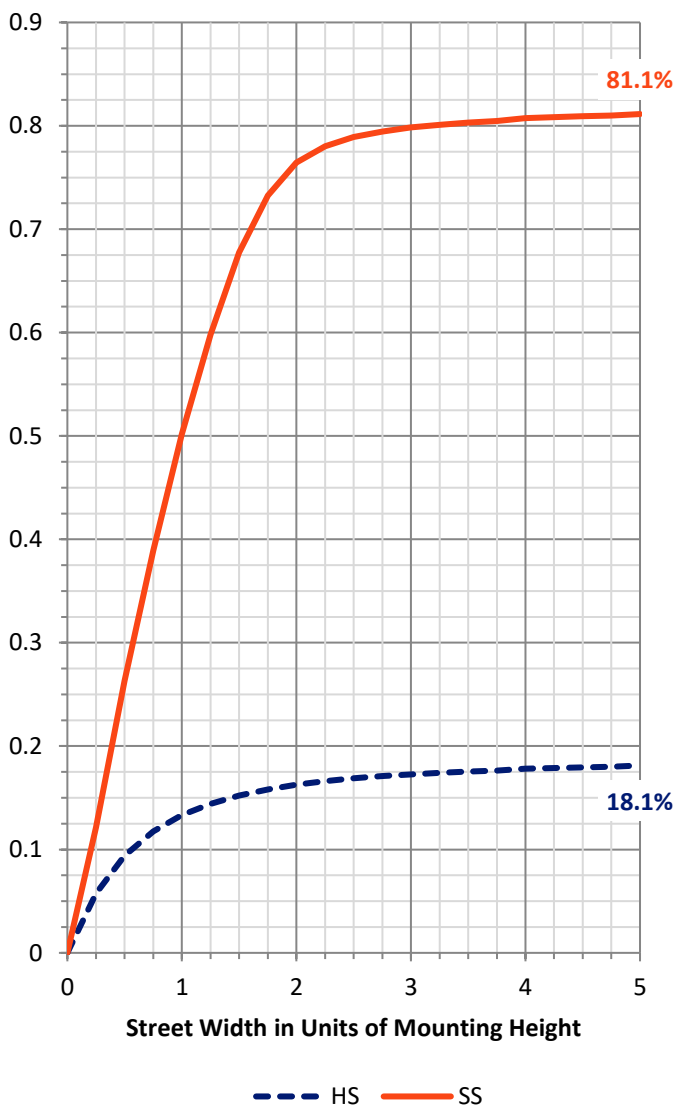
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3730.2	0.0	3730.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16377.8	0.0	16377.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	20108.0	0.0	20108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.9	1.2
10°-20°	801.0	4.0
20°-30°	1403.7	7.0
30°-40°	2081.2	10.4
40°-50°	3043.9	15.1
50°-60°	4188.4	20.8
60°-70°	4662.9	23.2
70°-80°	3159.6	15.7
80°-90°	519.3	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°	20108.0	100.0
0°-180°	20108.0	100.0

Coefficient of Utilization

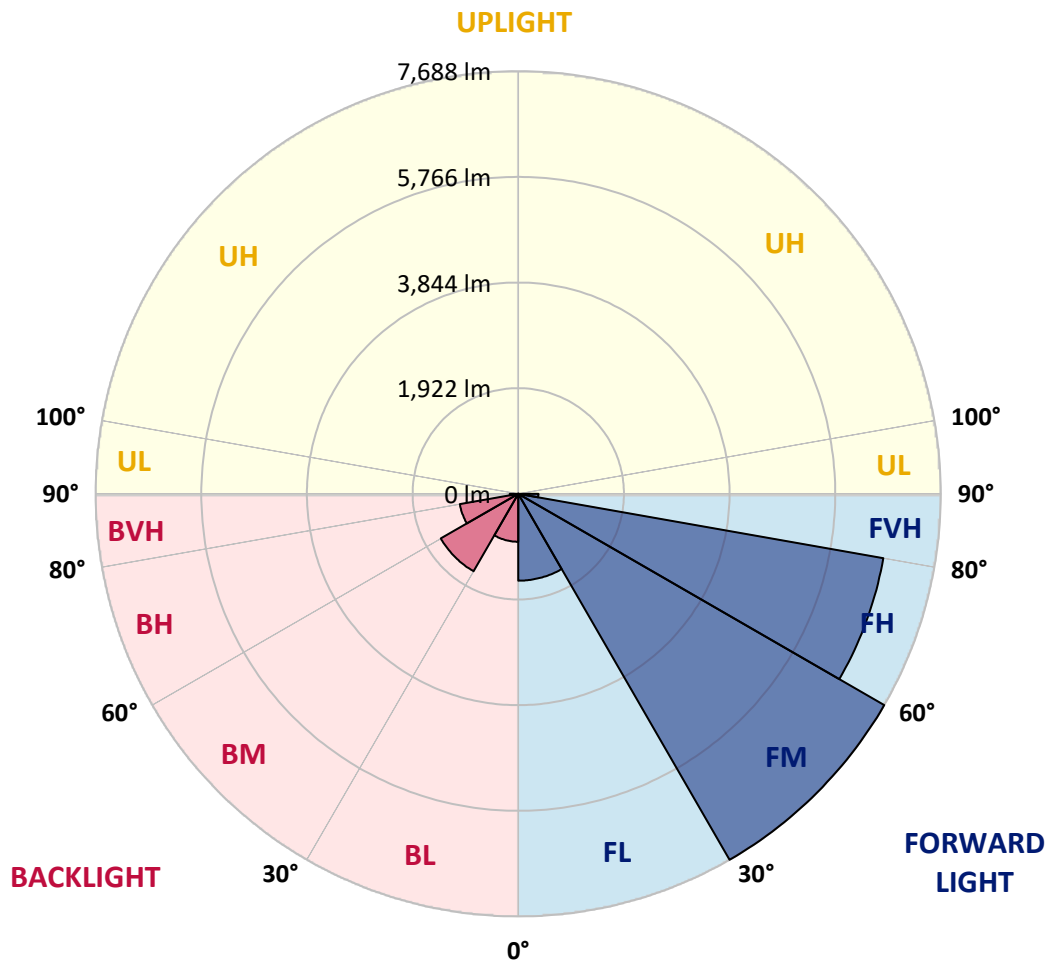


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1580.6	7.9			
FM (30°-60°)	7687.5	38.2			
FH (60°-80°)	6743.4	33.5			G3/7500
FVH (80°-90°)	366.3	1.8			G3/500
BL (0°-30°)	872.0	4.3	B2/1000		
BM (30°-60°)	1626.0	8.1	B2/2500		
BH (60°-80°)	1079.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	153.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2473.8	2473.8	2473.8	2473.8	2473.8	2473.8	2473.8	2473.8	2473.8	2473.8	2473.8
2.5°	2732.8	2728.6	2714.1	2714.1	2686.4	2662.8	2618.5	2588.7	2553.4	2541.0	2499.4
5°	2997.2	2998.6	2980.6	2968.2	2927.3	2877.5	2802.0	2733.4	2664.9	2637.2	2552.0
7.5°	3219.5	3216.7	3211.9	3201.5	3163.4	3112.2	3010.4	2908.6	2807.5	2766.0	2619.2
10°	3362.1	3368.3	3372.5	3377.3	3361.4	3324.7	3228.5	3104.6	2972.3	2915.5	2699.5
12.5°	3434.1	3445.2	3464.6	3497.8	3524.1	3520.0	3450.0	3318.5	3161.3	3090.0	2799.9
15°	3476.3	3490.9	3521.4	3580.9	3655.0	3697.2	3678.5	3559.4	3384.3	3296.3	2922.5
17.5°	3502.7	3514.4	3561.5	3641.1	3751.2	3863.4	3912.5	3812.8	3636.3	3535.9	3063.0
20°	3520.7	3529.7	3588.5	3682.0	3824.6	4003.2	4140.3	4115.4	3913.9	3783.8	3209.8
22.5°	3560.8	3568.4	3624.5	3718.7	3876.5	4107.1	4359.8	4397.2	4206.8	4059.3	3367.0
25°	3673.0	3673.0	3720.1	3785.8	3934.0	4197.1	4545.4	4710.8	4505.9	4334.2	3512.4
27.5°	3886.9	3884.8	3902.2	3925.0	4037.2	4288.5	4710.8	4987.8	4816.1	4628.4	3653.6
30°	4140.3	4154.2	4156.2	4145.2	4197.8	4402.7	4863.8	5280.0	5128.3	4926.2	3798.3
32.5°	4466.4	4475.4	4465.0	4428.3	4420.7	4564.7	5014.1	5586.0	5466.2	5237.0	3930.5
35°	4880.5	4863.1	4830.6	4755.8	4684.5	4781.5	5185.8	5892.0	5845.6	5613.0	4112.6
37.5°	5324.3	5325.0	5284.8	5115.2	5016.9	5058.4	5422.6	6238.9	6304.6	6060.2	4346.0
40°	5680.1	5698.8	5723.8	5500.8	5373.4	5430.9	5723.8	6641.1	6847.5	6590.6	4649.9
42.5°	5928.7	5950.2	6020.8	5880.9	5748.7	5855.3	6078.2	7070.4	7456.7	7202.6	5005.8
45°	6191.8	6203.6	6253.4	6193.2	6108.7	6349.0	6477.7	7514.9	8101.3	7854.8	5403.9
47.5°	6468.7	6481.2	6532.4	6492.3	6448.0	6810.1	6894.5	7933.8	8718.9	8571.4	5829.0
50°	6810.8	6819.1	6867.5	6794.8	6808.7	7157.6	7267.0	8318.0	9366.3	9215.3	6255.5
52.5°	7277.4	7279.5	7346.7	7280.9	7215.8	7412.4	7587.6	8680.1	9873.8	9802.5	6682.0
55°	7643.0	7665.1	7885.3	7871.5	7834.1	7643.7	7855.5	9024.9	10326.6	10360.5	7134.8
57.5°	7409.7	7496.2	7942.1	8256.4	8562.4	8219.0	8217.6	9413.4	10747.5	10908.2	7632.6
60°	6489.5	6607.2	7264.3	7961.5	8919.0	9220.2	8969.5	9887.6	11172.6	11451.0	8256.4
62.5°	4634.7	4828.5	5718.9	6832.2	8430.2	9883.5	10499.7	10640.2	11750.8	12079.6	9067.2
65°	2343.0	2489.7	3236.1	4577.2	6735.3	9450.0	12162.7	12288.0	12755.4	13047.6	10315.5
67.5°	1423.5	1478.9	1843.1	2545.8	4129.2	7361.2	12705.5	15034.6	14699.5	14854.6	12095.6
70°	1048.9	1089.8	1316.9	1690.7	2374.8	4319.6	11039.7	16994.7	16774.5	16757.2	13411.0
72°	817.0	846.8	1047.5	1366.0	1736.4	2591.5	8001.6	16271.2	17368.6	17281.3	13290.6
72.5°	774.8	801.1	983.8	1285.7	1640.9	2349.2	7194.3	15783.1	17325.7	17286.2	13134.8
75°	610.0	628.7	728.4	994.2	1284.3	1332.8	3942.3	12231.3	15369.7	16008.8	11813.8
77.5°	504.7	507.5	560.1	723.5	1001.2	942.3	1936.5	8486.3	11005.8	11708.5	8368.6
80°	411.3	414.7	439.6	507.5	757.4	697.2	919.5	4879.8	6162.0	6169.6	3979.7
82.5°	327.5	328.2	355.9	371.1	544.2	498.5	526.9	2291.0	2692.6	2590.1	1430.4
85°	230.6	225.7	347.6	304.6	355.9	319.9	290.8	907.0	1113.3	1064.9	448.0
87.5°	76.9	79.6	154.4	197.3	207.7	181.4	129.5	347.6	420.3	416.8	141.9
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°	2473.8	2473.8	2473.8	2473.8	2473.8	2473.8	2473.8	2473.8	2473.8	2473.8	2473.8
2.5°	2486.3	2464.1	2431.6	2395.6	2367.2	2338.1	2316.6	2305.6	2293.1	2282.7	2295.2
5°	2512.6	2471.0	2401.8	2334.0	2284.1	2239.8	2207.9	2191.3	2176.1	2165.7	2167.1
7.5°	2555.5	2488.3	2372.0	2273.0	2203.8	2156.0	2123.5	2112.4	2102.7	2099.9	2103.4
10°	2601.2	2502.2	2332.6	2201.0	2122.1	2082.6	2068.1	2075.7	2082.6	2088.9	2095.8
12.5°	2653.1	2514.7	2275.1	2116.5	2049.4	2034.2	2048.7	2081.9	2106.2	2120.7	2129.7
15°	2721.0	2525.7	2208.6	2032.1	1987.1	2004.4	2053.5	2111.0	2153.2	2180.2	2184.4
17.5°	2783.3	2525.0	2123.5	1946.9	1936.5	1987.1	2061.2	2142.2	2198.9	2237.0	2244.6
20°	2847.7	2506.3	2024.5	1863.8	1885.3	1968.4	2064.6	2162.2	2230.8	2275.1	2285.5
22.5°	2907.9	2473.8	1915.8	1788.4	1842.4	1943.5	2051.5	2150.5	2219.0	2255.0	2266.1
25°	2948.8	2417.0	1805.7	1724.7	1804.3	1913.0	2008.5	2088.2	2139.4	2157.4	2160.2
27.5°	2969.5	2343.0	1701.8	1669.3	1764.8	1863.1	1928.9	1968.4	1982.9	1981.5	1978.8
30°	2972.3	2245.3	1612.5	1624.3	1719.1	1789.8	1820.9	1813.3	1794.6	1762.8	1765.5
32.5°	2963.3	2135.2	1537.7	1581.4	1661.0	1700.4	1701.8	1665.1	1615.3	1564.7	1550.9
35°	2966.1	2027.2	1472.0	1532.9	1590.4	1607.7	1591.7	1537.7	1469.9	1404.8	1391.0
37.5°	2996.5	1933.1	1415.2	1476.8	1512.1	1516.3	1493.4	1436.7	1386.8	1323.1	1317.6
40°	3069.2	1865.9	1361.2	1413.8	1433.9	1436.0	1403.4	1363.3	1367.4	1333.5	1332.8
42.5°	3200.1	1836.8	1313.4	1348.0	1360.5	1364.6	1339.7	1314.1	1350.1	1327.9	1320.3
45°	3369.0	1843.8	1273.3	1283.6	1306.5	1325.9	1310.6	1279.5	1293.3	1197.1	1165.2
47.5°	3564.3	1888.1	1241.4	1228.2	1267.7	1304.4	1280.9	1233.8	1184.6	1089.1	1071.1
50°	3792.8	1956.6	1212.3	1173.6	1225.5	1275.3	1251.8	1184.6	1110.5	1064.2	1057.9
52.5°	4030.9	2040.4	1183.2	1113.3	1172.2	1253.2	1241.4	1173.6	1082.2	1036.5	1028.2
55°	4301.0	2124.9	1146.6	1043.4	1114.7	1242.8	1236.6	1133.4	1060.7	1035.1	1028.8
57.5°	4636.7	2221.1	1098.1	970.7	1060.7	1205.4	1186.0	1109.2	1038.5	1019.2	1017.1
60°	5074.3	2363.0	1028.2	893.1	994.9	1147.9	1143.8	1073.9	1003.2	989.4	986.6
62.5°	5730.7	2597.7	931.9	815.6	921.5	1050.3	1088.4	1026.1	965.8	965.2	966.5
65°	6748.5	2950.8	827.4	747.8	847.5	967.9	1024.0	976.9	927.8	941.6	943.7
67.5°	7928.2	3243.7	724.9	681.3	772.0	889.7	965.8	927.8	877.2	913.2	913.9
70°	8320.8	2982.0	634.9	615.5	693.7	814.2	902.8	873.8	822.5	858.5	855.1
72°	7743.4	2407.3	576.7	565.7	634.9	751.9	846.8	823.2	772.7	796.9	787.9
72.5°	7561.3	2295.2	562.2	553.2	619.0	736.0	832.2	810.8	760.2	781.0	772.7
75°	6745.0	1993.3	483.3	485.3	540.0	658.4	750.5	743.6	691.7	693.7	691.0
77.5°	4892.2	1461.6	407.1	421.0	459.7	578.8	668.1	664.0	607.2	596.8	594.7
80°	2270.3	745.7	331.6	337.9	378.0	484.0	569.8	564.3	518.6	505.4	497.8
82.5°	777.5	354.5	249.3	253.4	292.9	389.8	494.3	490.9	452.8	427.2	411.3
85°	277.6	176.6	174.5	170.3	209.1	306.7	430.6	412.0	355.9	303.3	301.9
87.5°	90.0	75.5	90.0	89.3	121.9	207.7	312.9	266.6	258.3	214.6	210.5
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)