

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: P318210

Luminaire Tested: **GLEON-SA6C-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318210
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-SA6C-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30518 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

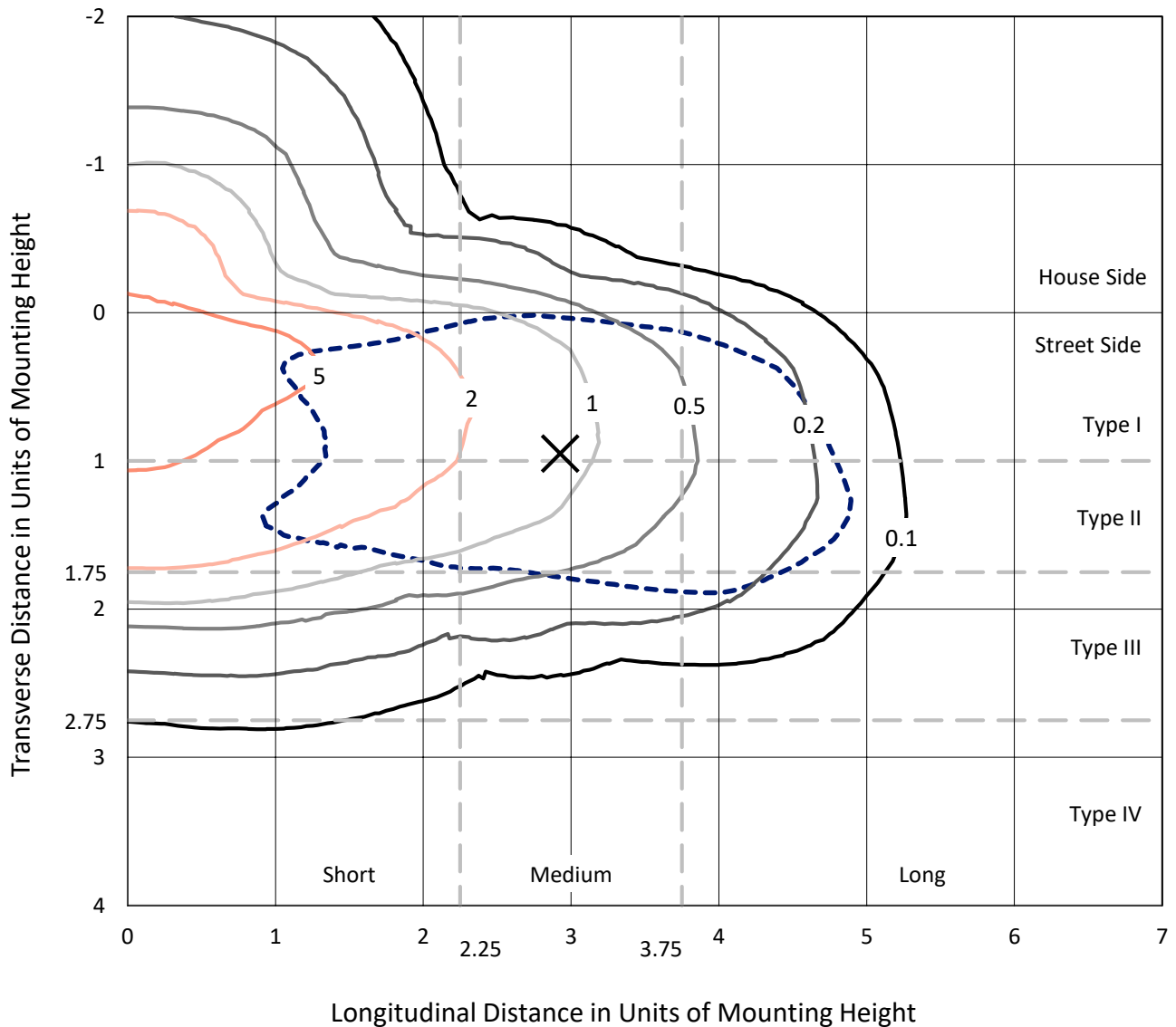
Input Watts (W): 333
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

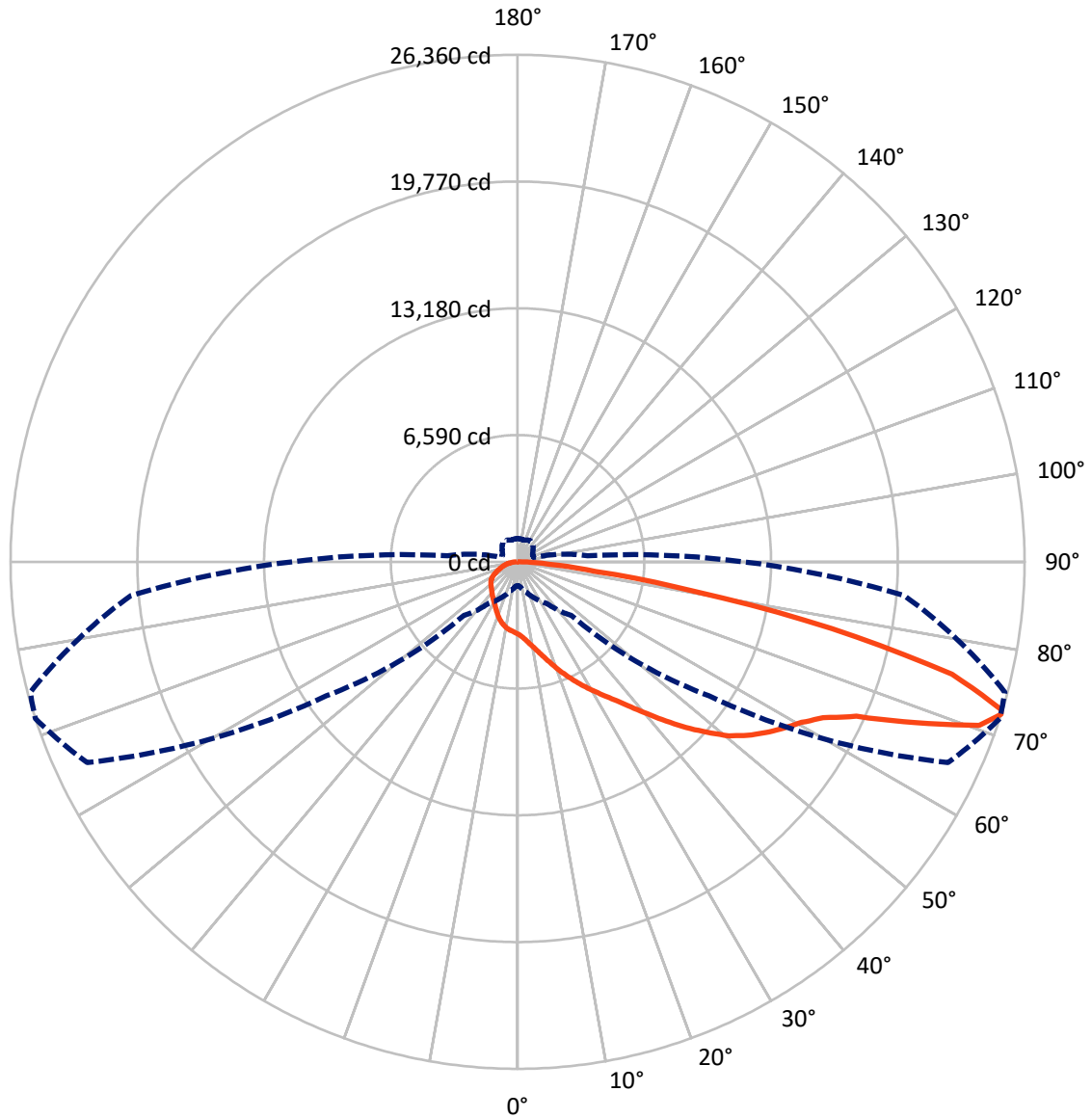
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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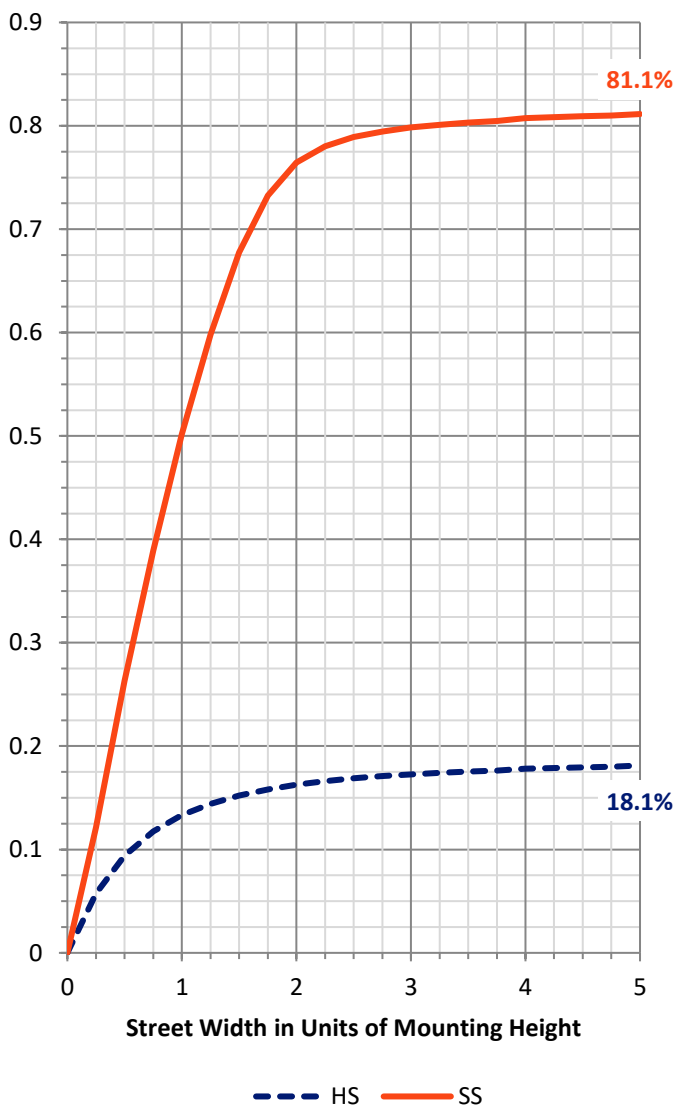
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5661.3	0.0	5661.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	24856.7	0.0	24856.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	30518.0	0.0	30518.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.2	1.2
10°-20°	1215.7	4.0
20°-30°	2130.4	7.0
30°-40°	3158.7	10.4
40°-50°	4619.8	15.1
50°-60°	6356.8	20.8
60°-70°	7077.0	23.2
70°-80°	4795.4	15.7
80°-90°	788.2	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°	30518.0	100.0
0°-180°	30518.0	100.0

Coefficient of Utilization

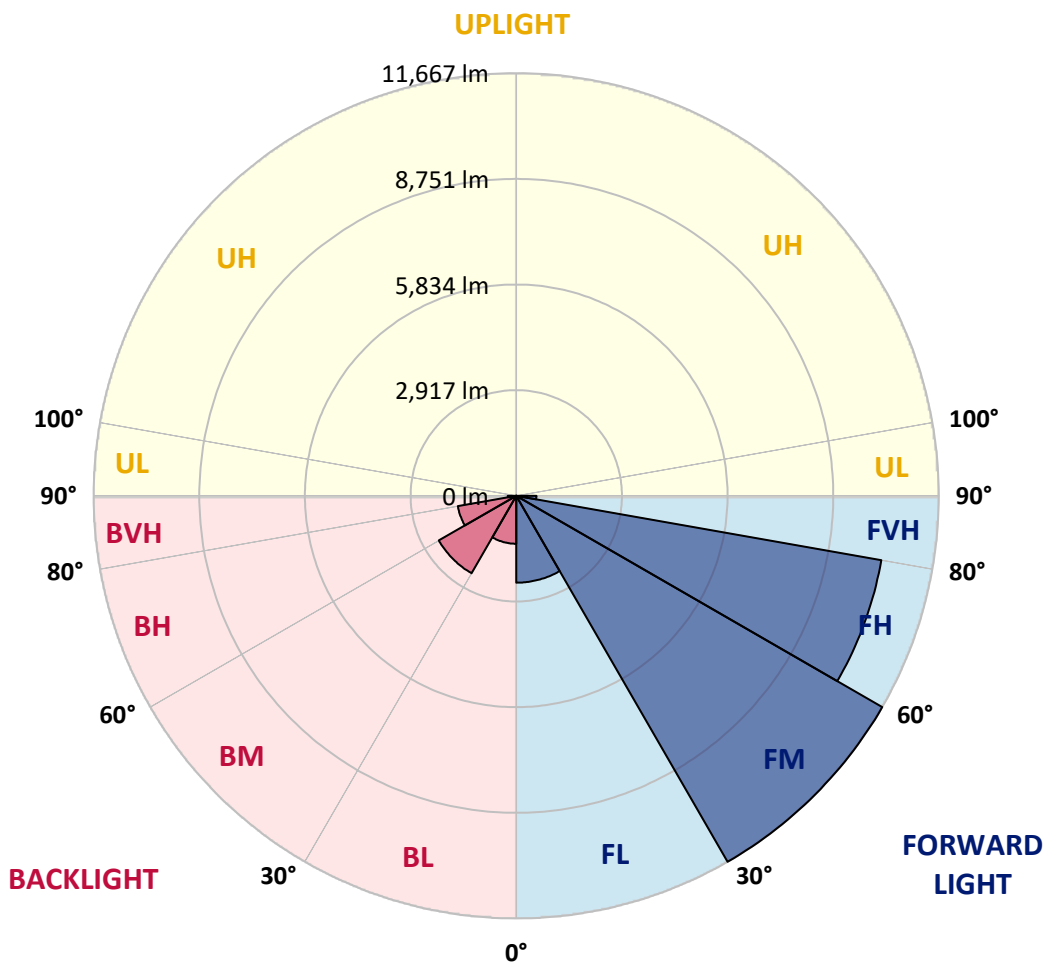


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2398.9	7.9			
FM (30°-60°)	11667.4	38.2			
FH (60°-80°)	10234.4	33.5			G4/12000
FVH (80°-90°)	556.0	1.8			G4/750
BL (0°-30°)	1323.4	4.3	B3/2500		
BM (30°-60°)	2467.8	8.1	B2/2500		
BH (60°-80°)	1637.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	232.2	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5
2.5°	4147.5	4141.2	4119.1	4119.1	4077.1	4041.4	3974.1	3928.9	3875.4	3856.4	3793.4
5°	4548.9	4551.0	4523.7	4504.8	4442.8	4367.1	4252.6	4148.6	4044.5	4002.5	3873.3
7.5°	4886.2	4882.0	4874.7	4858.9	4801.1	4723.3	4568.9	4414.4	4261.0	4197.9	3975.2
10°	5102.7	5112.1	5118.4	5125.8	5101.6	5045.9	4899.9	4711.8	4511.1	4424.9	4097.1
12.5°	5212.0	5228.8	5258.2	5308.6	5348.6	5342.3	5236.1	5036.5	4798.0	4689.7	4249.4
15°	5276.1	5298.1	5344.4	5434.7	5547.2	5611.3	5582.9	5402.2	5136.3	5002.9	4435.4
17.5°	5316.0	5333.9	5405.3	5526.2	5693.2	5863.5	5938.1	5786.8	5518.8	5366.4	4648.7
20°	5343.3	5357.0	5446.3	5588.2	5804.6	6075.7	6283.8	6246.0	5940.2	5742.6	4871.5
22.5°	5404.3	5415.8	5500.9	5643.8	5883.4	6233.3	6616.9	6673.6	6384.7	6160.8	5110.0
25°	5574.5	5574.5	5646.0	5745.8	5970.6	6370.0	6898.5	7149.6	6838.6	6578.0	5330.7
27.5°	5899.2	5896.0	5922.3	5957.0	6127.2	6508.7	7149.6	7570.0	7309.4	7024.6	5545.1
30°	6283.8	6304.8	6308.0	6291.1	6371.0	6682.0	7381.9	8013.4	7783.3	7476.4	5764.7
32.5°	6778.7	6792.4	6776.6	6720.9	6709.4	6927.9	7609.9	8477.9	8296.1	7948.3	5965.4
35°	7407.1	7380.8	7331.4	7217.9	7109.7	7256.8	7870.5	8942.3	8871.9	8518.8	6241.8
37.5°	8080.7	8081.7	8020.8	7763.3	7614.1	7677.1	8229.9	9468.8	9568.6	9197.7	6595.9
40°	8620.8	8649.1	8687.0	8348.6	8155.3	8242.5	8687.0	10079.3	10392.4	10002.6	7057.2
42.5°	8998.0	9030.6	9137.8	8925.5	8724.8	8886.6	9225.0	10730.8	11317.1	10931.5	7597.3
45°	9397.3	9415.2	9490.8	9399.4	9271.2	9635.8	9831.3	11405.4	12295.4	11921.3	8201.5
47.5°	9817.6	9836.5	9914.3	9853.4	9786.1	10335.7	10463.9	12041.1	13232.7	13008.9	8846.7
50°	10336.7	10349.3	10422.9	10312.6	10333.6	10863.2	11029.2	12624.3	14215.2	13986.2	9494.0
52.5°	11045.0	11048.1	11150.0	11050.2	10951.4	11249.9	11515.7	13173.9	14985.5	14877.2	10141.3
55°	11599.8	11633.4	11967.6	11946.6	11889.8	11600.8	11922.4	13697.2	15672.7	15724.2	10828.5
57.5°	11245.7	11377.0	12053.7	12530.8	12995.2	12474.1	12472.0	14286.7	16311.6	16555.4	11584.0
60°	9849.2	10027.8	11025.0	12083.2	13536.4	13993.5	13613.1	15006.5	16956.8	17379.2	12530.8
62.5°	7034.1	7328.3	8679.6	10369.3	12794.5	15000.2	15935.4	16148.7	17834.2	18333.3	13761.3
65°	3555.9	3778.7	4911.4	6946.8	10222.2	14342.4	18459.4	18649.6	19358.9	19802.3	15655.9
67.5°	2160.4	2244.5	2797.2	3863.8	6267.0	11172.1	19283.2	22818.1	22309.5	22544.9	18357.5
70°	1592.0	1654.0	1998.6	2566.1	3604.2	6555.9	16755.0	25792.9	25458.8	25432.5	20354.0
72°	1239.9	1285.1	1589.9	2073.2	2635.4	3933.1	12144.1	24694.9	26360.4	26228.0	20171.2
72.5°	1175.8	1215.8	1493.2	1951.3	2490.4	3565.4	10918.9	23954.0	26295.2	26235.3	19934.7
75°	925.8	954.1	1105.4	1508.9	1949.2	2022.8	5983.3	18563.4	23326.7	24296.6	17929.8
77.5°	766.0	770.2	850.1	1098.1	1519.5	1430.1	2939.1	12879.7	16703.5	17770.1	12701.0
80°	624.2	629.4	667.3	770.2	1149.6	1058.2	1395.5	7406.0	9352.1	9363.7	6040.0
82.5°	497.0	498.1	540.1	563.2	825.9	756.6	799.7	3477.1	4086.6	3931.0	2171.0
85°	349.9	342.6	527.5	462.4	540.1	485.5	441.3	1376.5	1689.7	1616.1	679.9
87.5°	116.6	120.8	234.3	299.5	315.2	275.3	196.5	527.5	637.8	632.6	215.4
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°	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5	3754.5
2.5°	3773.4	3739.8	3690.4	3635.8	3592.7	3548.6	3516.0	3499.2	3480.3	3464.5	3483.4
5°	3813.4	3750.3	3645.2	3542.2	3466.6	3399.3	3351.0	3325.8	3302.7	3286.9	3289.0
7.5°	3878.5	3776.6	3600.0	3449.8	3344.7	3272.2	3222.8	3206.0	3191.3	3187.1	3192.3
10°	3947.9	3797.6	3540.1	3340.5	3220.7	3160.8	3138.7	3150.3	3160.8	3170.3	3180.8
12.5°	4026.7	3816.5	3452.9	3212.3	3110.4	3087.3	3109.3	3159.8	3196.5	3218.6	3232.3
15°	4129.6	3833.3	3352.1	3084.1	3015.8	3042.1	3116.7	3203.9	3268.0	3309.0	3315.3
17.5°	4224.2	3832.3	3222.8	2954.9	2939.1	3015.8	3128.2	3251.2	3337.3	3395.1	3406.7
20°	4321.9	3803.9	3072.5	2828.8	2861.3	2987.4	3133.5	3281.6	3385.7	3452.9	3468.7
22.5°	4413.4	3754.5	2907.6	2714.2	2796.2	2949.6	3113.5	3263.8	3367.8	3422.5	3439.3
25°	4475.4	3668.3	2740.5	2617.5	2738.4	2903.4	3048.4	3169.2	3247.0	3274.3	3278.5
27.5°	4506.9	3555.9	2582.9	2533.5	2678.5	2827.7	2927.5	2987.4	3009.5	3007.4	3003.2
30°	4511.1	3407.7	2447.3	2465.2	2609.1	2716.3	2763.6	2752.0	2723.7	2675.3	2679.5
32.5°	4497.4	3240.7	2333.8	2400.0	2520.9	2580.8	2582.9	2527.2	2451.5	2374.8	2353.8
35°	4501.6	3076.7	2234.0	2326.5	2413.7	2440.0	2415.8	2333.8	2230.8	2132.1	2111.1
37.5°	4547.9	2933.8	2147.8	2241.4	2294.9	2301.3	2266.6	2180.4	2104.8	2008.1	1999.7
40°	4658.2	2831.9	2065.9	2145.7	2176.2	2179.4	2130.0	2069.0	2075.3	2023.8	2022.8
42.5°	4856.8	2787.8	1993.4	2045.9	2064.8	2071.1	2033.3	1994.4	2049.1	2015.4	2003.9
45°	5113.2	2798.3	1932.4	1948.2	1982.9	2012.3	1989.2	1941.9	1962.9	1816.8	1768.5
47.5°	5409.5	2865.5	1884.1	1864.1	1924.0	1979.7	1944.0	1872.5	1797.9	1652.9	1625.6
50°	5756.3	2969.6	1840.0	1781.1	1859.9	1935.6	1899.8	1797.9	1685.5	1615.1	1605.6
52.5°	6117.8	3096.7	1795.8	1689.7	1779.0	1901.9	1884.1	1781.1	1642.4	1573.0	1560.4
55°	6527.6	3224.9	1740.1	1583.6	1691.8	1886.2	1876.7	1720.2	1609.8	1570.9	1561.5
57.5°	7037.2	3371.0	1666.6	1473.2	1609.8	1829.4	1800.0	1683.4	1576.2	1546.8	1543.6
60°	7701.3	3586.4	1560.4	1355.5	1510.0	1742.2	1735.9	1629.8	1522.6	1501.6	1497.4
62.5°	8697.5	3942.6	1414.4	1237.8	1398.6	1594.1	1651.9	1557.3	1465.9	1464.8	1466.9
65°	10242.2	4478.5	1255.7	1134.9	1286.2	1469.0	1554.1	1482.7	1408.1	1429.1	1432.2
67.5°	12032.7	4923.0	1100.2	1034.0	1171.6	1350.3	1465.9	1408.1	1331.4	1386.0	1387.1
70°	12628.5	4525.8	963.6	934.2	1052.9	1235.7	1370.2	1326.1	1248.4	1303.0	1297.7
72°	11752.2	3653.6	875.3	858.5	963.6	1141.2	1285.1	1249.4	1172.7	1209.5	1195.8
72.5°	11475.8	3483.4	853.3	839.6	939.4	1117.0	1263.1	1230.5	1153.8	1185.3	1172.7
75°	10236.9	3025.3	733.5	736.6	819.6	999.3	1139.1	1128.6	1049.7	1052.9	1048.7
77.5°	7425.0	2218.2	617.9	638.9	697.7	878.5	1014.0	1007.7	921.6	905.8	902.6
80°	3445.6	1131.7	503.3	512.8	573.7	734.5	864.8	856.4	787.0	767.1	755.5
82.5°	1180.0	538.0	378.3	384.6	444.5	591.6	750.3	745.0	687.2	648.3	624.2
85°	421.4	268.0	264.8	258.5	317.3	465.5	653.6	625.2	540.1	460.3	458.1
87.5°	136.6	114.5	136.6	135.6	184.9	315.2	475.0	404.6	391.9	325.7	319.4
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)