

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: P383218

Luminaire Tested: **GLEON-SA5C-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33784.4 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

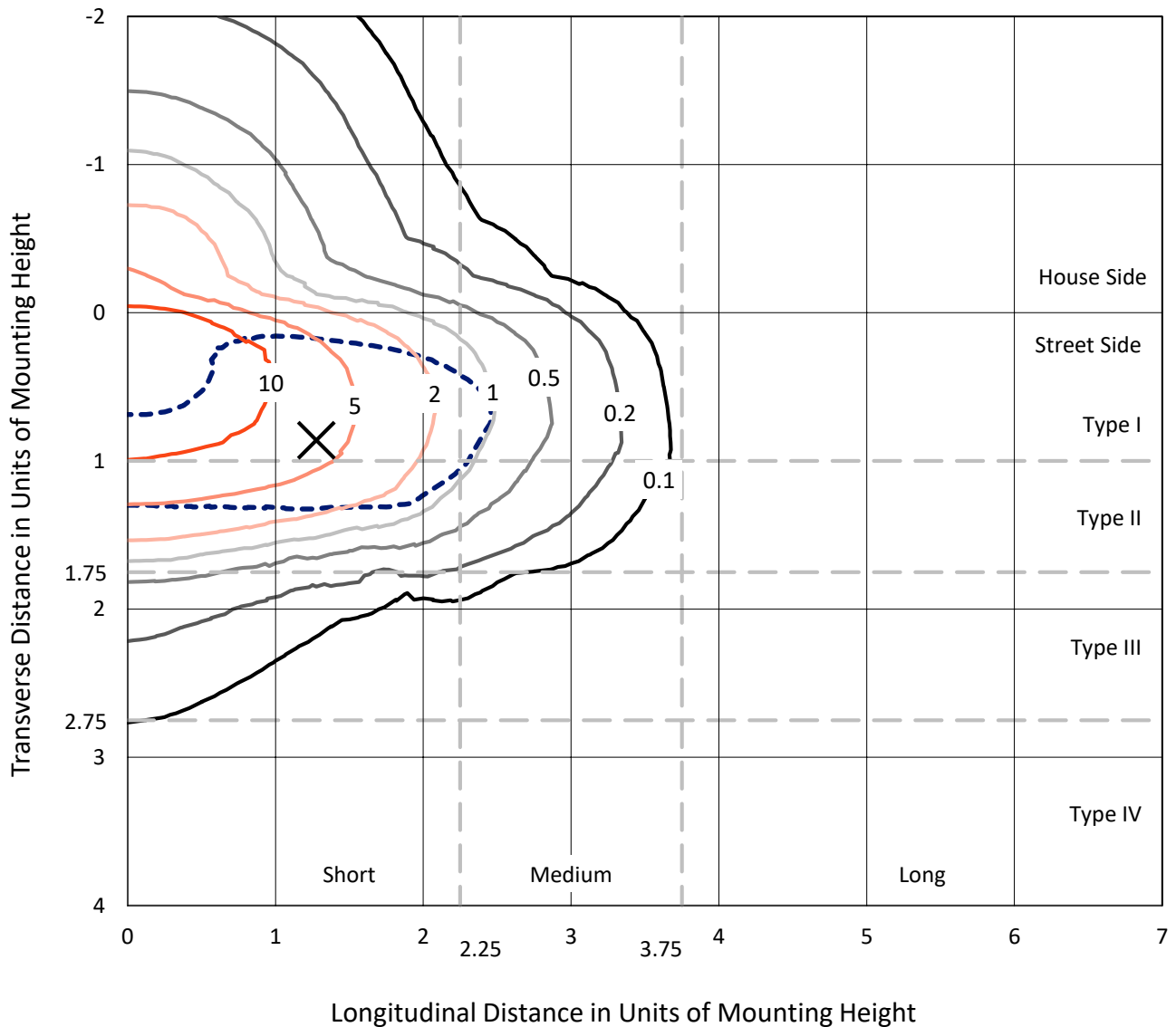
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

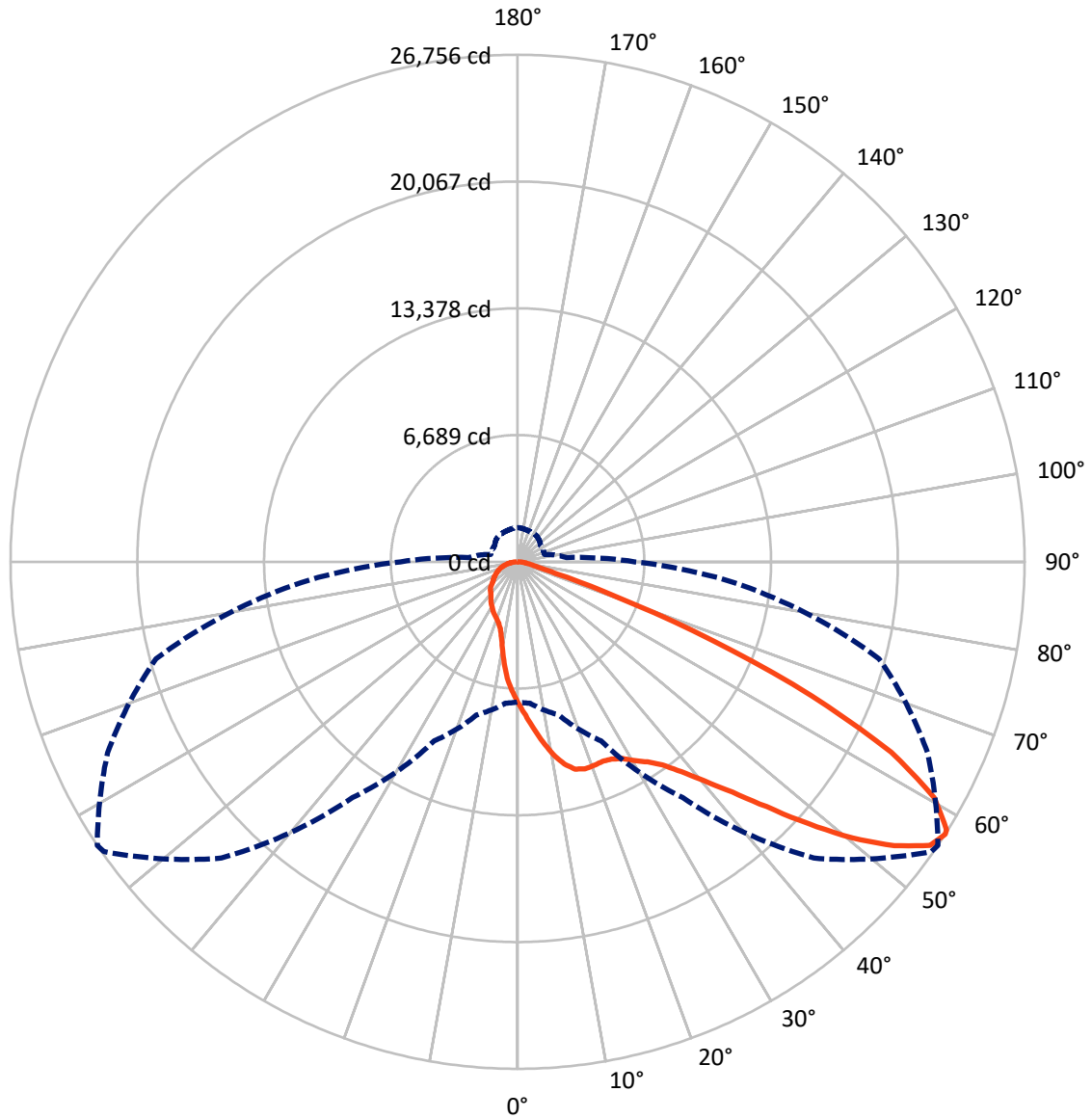
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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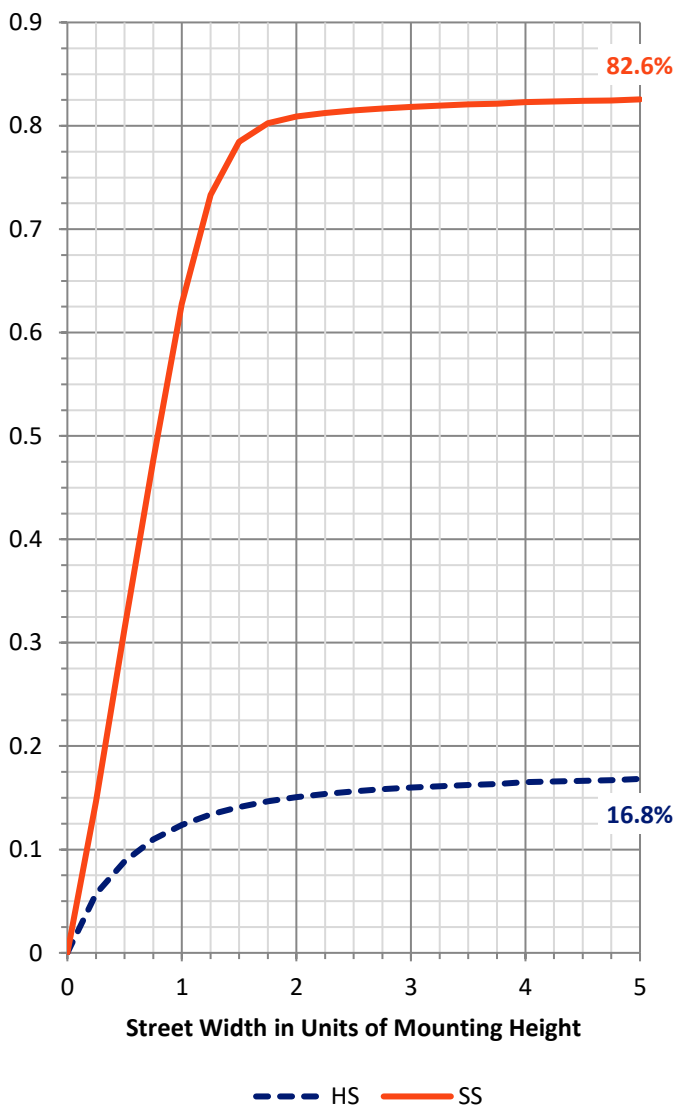
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5823.7	0.0	5823.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	27960.7	0.0	27960.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	33784.4	0.0	33784.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.8	2.1
10°-20°	2023.8	6.0
20°-30°	3296.3	9.8
30°-40°	4927.6	14.6
40°-50°	7474.2	22.1
50°-60°	8377.2	24.8
60°-70°	4947.9	14.6
70°-80°	1621.1	4.8
80°-90°	400.5	1.2
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°	33784.4	100.0
0°-180°	33784.4	100.0

Coefficient of Utilization



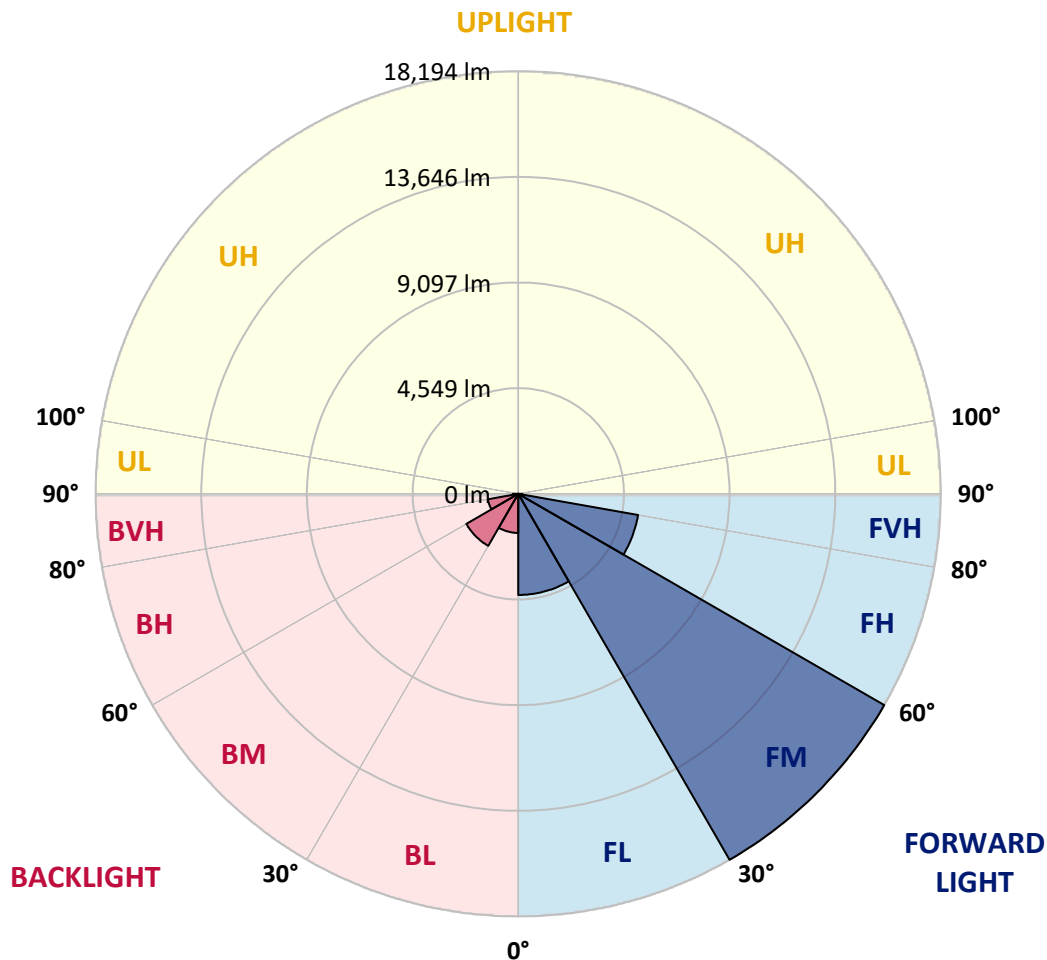
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4351.9	12.9			
FM (30°-60°)	18194.0	53.9			
FH (60°-80°)	5238.4	15.5			G3/7500
FVH (80°-90°)	176.4	0.5			G2/225
BL (0°-30°)	1683.9	5.0	B3/2500		
BM (30°-60°)	2584.9	7.7	B3/5000		
BH (60°-80°)	1330.6	3.9	B3/2500		G3/2500
BVH (80°-90°)	224.2	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7493.5	7493.5	7493.5	7493.5	7493.5	7493.5	7493.5	7493.5	7493.5	7493.5	7493.5
2.5°	8604.5	8683.5	8648.7	8527.9	8435.1	8303.8	8157.6	8113.4	7959.0	7786.0	7578.1
5°	9966.4	9926.9	9870.1	9682.0	9483.4	9252.4	8885.5	8827.4	8483.8	8092.5	7679.2
7.5°	10742.0	10738.5	10704.9	10594.6	10413.5	10111.6	9669.2	9600.7	9081.8	8452.5	7811.6
10°	10629.4	10621.3	10677.0	10792.0	10846.6	10783.9	10411.2	10342.6	9705.2	8850.7	7964.8
12.5°	9989.6	9994.3	10083.7	10325.2	10653.8	11048.5	10988.2	10954.5	10351.9	9301.1	8150.6
15°	9491.6	9502.1	9572.9	9783.0	10170.8	10887.2	11338.8	11350.4	10977.7	9798.1	8367.7
17.5°	9273.3	9295.4	9327.9	9475.3	9830.6	10565.5	11422.5	11485.1	11525.8	10313.6	8576.7
20°	9343.0	9363.9	9373.1	9467.2	9758.6	10370.5	11364.3	11476.9	11946.1	10799.0	8785.7
22.5°	9655.3	9668.1	9673.8	9698.2	9924.6	10426.3	11326.0	11444.4	12250.2	11234.3	8943.6
25°	10173.2	10163.8	10126.7	10095.4	10247.4	10646.8	11414.3	11526.9	12497.5	11629.1	9046.9
27.5°	10793.1	10781.5	10709.5	10623.6	10710.7	10990.5	11668.6	11758.0	12719.4	11998.3	9099.2
30°	11537.4	11507.1	11371.3	11269.1	11302.8	11506.0	12087.7	12169.0	13061.8	12417.4	9150.2
32.5°	12397.7	12365.2	12169.0	11999.5	11999.5	12169.0	12519.6	12587.0	13352.1	12891.1	9232.7
35°	13475.1	13434.5	13179.1	12894.7	12814.6	12900.4	13108.3	13155.9	13874.6	13487.9	9382.5
37.5°	14745.4	14690.8	14359.9	13979.1	13803.8	13799.1	13948.9	14046.3	14709.3	14271.6	9636.7
40°	16019.0	15980.7	15691.6	15392.1	15048.4	14938.1	15169.1	15199.3	15800.7	15244.6	9961.8
42.5°	17003.5	16996.6	16943.2	16982.7	16630.9	16408.0	16589.1	16613.5	17133.6	16297.7	10307.8
45°	17523.7	17535.4	17794.2	18367.8	18497.8	18335.3	18424.7	18431.7	18656.9	17360.0	10624.8
47.5°	17106.9	17167.3	17822.1	19105.1	20169.8	20709.7	20561.0	20646.9	20133.8	18272.6	10873.2
50°	15482.6	15556.9	16671.5	18776.5	20949.9	23007.4	22929.6	22909.8	21325.0	18941.3	11007.9
52.5°	13470.6	13528.6	14448.1	17068.6	20377.6	24277.5	24991.7	24889.5	22383.9	19441.8	11033.4
55°	10406.5	10497.1	11378.3	13659.7	18062.4	23792.3	26507.9	26416.2	23348.7	19704.2	11003.3
57°	7398.3	7493.5	8368.8	10425.0	15194.7	22112.2	26658.8	26756.4	23870.1	19748.3	11037.0
57.5°	6601.7	6699.2	7566.6	9563.5	14300.7	21505.0	26528.8	26691.4	23964.1	19741.4	11055.5
60°	3324.0	3361.2	3913.9	5338.5	9039.9	17385.6	24832.5	25251.6	24048.8	19399.9	11135.6
62.5°	2066.6	2040.0	2022.6	2459.1	4398.0	11529.2	21332.0	22138.9	22426.8	18573.3	10941.8
65°	1817.1	1767.1	1575.5	1540.7	1942.5	5599.7	16064.3	17068.6	18961.1	17270.6	10479.6
67.5°	1706.8	1658.0	1442.0	1312.0	1313.1	2220.0	9973.4	11104.3	14770.9	15068.2	9389.4
70°	1592.9	1548.9	1346.8	1193.6	1118.1	1229.5	4588.4	5446.5	9628.6	11843.9	7847.5
72.5°	1446.7	1416.5	1224.9	1067.0	986.9	920.7	1756.7	2074.8	5574.2	7954.4	5449.9
75°	1293.5	1265.5	1101.8	950.9	853.4	724.5	989.2	1065.9	2831.8	4069.5	2683.2
77.5°	1125.0	1108.8	979.9	840.6	762.8	600.3	700.2	737.2	1214.5	1745.1	1345.6
80°	895.1	926.5	856.8	748.9	676.9	480.7	495.8	520.2	707.0	852.2	764.0
82.5°	582.9	637.5	671.1	608.4	557.3	378.5	356.4	366.9	460.9	520.2	332.1
85°	242.7	272.9	441.2	398.2	370.4	276.3	239.2	243.8	285.6	296.0	135.8
87.5°	108.0	115.0	193.9	182.3	156.8	95.2	102.2	111.5	152.1	143.9	52.3
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°	7493.5	7493.5	7493.5	7493.5	7493.5	7493.5	7493.5	7493.5	7493.5	7493.5	7493.5
2.5°	7500.4	7402.8	7235.7	7051.1	6900.2	6779.3	6657.5	6573.8	6476.3	6424.0	6397.4
5°	7506.2	7314.6	6962.9	6601.7	6279.0	5984.1	5703.1	5487.1	5285.1	5176.0	5145.8
7.5°	7530.5	7242.6	6673.7	6079.3	5505.7	4982.1	4578.0	4324.9	4142.6	4061.4	4038.2
10°	7550.3	7157.9	6316.1	5436.0	4655.8	4125.2	3811.7	3670.1	3607.4	3596.9	3586.5
12.5°	7596.8	7070.8	5939.9	4765.0	3995.1	3628.3	3519.1	3509.9	3527.3	3552.8	3552.8
15°	7669.9	6984.8	5510.4	4189.1	3574.9	3446.0	3468.1	3519.1	3566.7	3606.2	3612.0
17.5°	7723.3	6879.2	5048.2	3728.1	3350.8	3385.6	3464.6	3536.5	3585.3	3623.6	3627.2
20°	7761.7	6715.5	4554.8	3376.3	3221.9	3329.9	3428.6	3492.5	3526.1	3564.4	3570.2
22.5°	7741.9	6496.1	4117.1	3124.4	3117.4	3248.6	3342.7	3419.3	3393.7	3356.6	3381.0
25°	7646.7	6194.2	3666.6	2936.3	3007.1	3139.5	3255.6	3204.5	3118.5	3102.3	3111.6
27.5°	7477.2	5808.8	3249.8	2762.1	2879.4	3038.4	3031.5	2980.4	2950.2	2929.3	2942.1
30°	7294.9	5390.8	2885.2	2610.0	2737.7	2869.0	2842.2	2841.1	2810.9	2777.2	2793.5
32.5°	7114.9	4970.5	2596.1	2484.6	2631.0	2648.4	2706.4	2723.8	2664.6	2593.8	2589.1
35°	6958.2	4573.3	2376.7	2370.9	2502.0	2504.4	2589.1	2564.7	2417.3	2344.1	2344.1
37.5°	6840.9	4177.4	2209.4	2268.7	2332.6	2393.0	2435.9	2334.8	2310.5	2269.8	2268.7
40°	6789.9	3829.1	2105.0	2190.9	2213.0	2289.6	2179.3	2218.8	2230.4	2209.4	2209.4
42.5°	6736.4	3526.1	2014.4	2131.7	2128.2	2117.8	2062.0	2113.1	2159.5	2160.7	2157.3
45°	6683.0	3264.9	1934.3	2005.2	2053.9	1941.3	1951.7	2006.3	2071.3	2094.5	2094.5
47.5°	6623.8	3058.2	1861.1	1871.6	1947.1	1871.6	1863.5	1905.3	1981.9	2019.0	2027.2
50°	6493.7	2872.4	1777.6	1754.4	1775.3	1800.8	1807.8	1827.5	1912.3	1971.4	1985.4
52.5°	6313.8	2706.4	1670.7	1646.3	1646.3	1742.7	1775.3	1781.0	1853.0	1923.8	1937.8
55°	6164.1	2600.8	1560.4	1555.8	1551.1	1681.2	1737.0	1746.2	1796.1	1851.9	1858.8
57°	6174.5	2592.6	1475.7	1480.3	1479.2	1618.5	1700.9	1720.7	1746.2	1793.8	1802.0
57.5°	6180.3	2598.5	1457.1	1459.5	1458.2	1601.1	1690.5	1712.6	1732.3	1782.2	1790.3
60°	6267.4	2613.5	1381.7	1356.1	1361.9	1508.2	1631.2	1659.2	1671.9	1738.1	1748.5
62.5°	6138.4	2546.2	1321.3	1259.7	1259.7	1410.6	1548.9	1592.9	1612.7	1702.1	1719.5
65°	5764.6	2356.9	1250.4	1150.6	1162.2	1313.1	1450.1	1522.1	1552.3	1663.7	1682.4
67.5°	5187.6	2137.5	1175.0	1053.1	1064.7	1211.0	1347.9	1425.7	1473.3	1622.0	1637.1
70°	4436.4	1869.3	1072.8	949.7	963.7	1099.5	1227.2	1315.4	1386.3	1582.5	1587.2
72.5°	3270.7	1532.6	930.0	836.0	851.1	969.5	1105.3	1207.5	1302.7	1483.9	1481.5
75°	1944.8	1198.2	772.1	721.0	731.5	841.7	995.0	1119.3	1262.1	1445.5	1467.6
77.5°	1179.6	902.1	629.3	603.7	616.5	729.1	916.1	1048.5	1244.6	1363.0	1356.1
80°	712.9	644.4	502.8	486.5	499.2	623.5	847.5	995.0	1087.9	1164.5	1164.5
82.5°	372.7	393.6	369.2	356.4	373.8	506.2	770.9	868.5	961.4	825.5	770.9
85°	152.1	205.5	224.0	222.9	233.4	350.6	665.3	743.1	620.0	588.6	602.6
87.5°	51.0	87.1	109.2	94.1	98.7	220.6	460.9	358.7	426.1	297.3	282.2
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)