

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: P317884

Luminaire Tested: **GLEON-SA0B-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0B-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42513 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

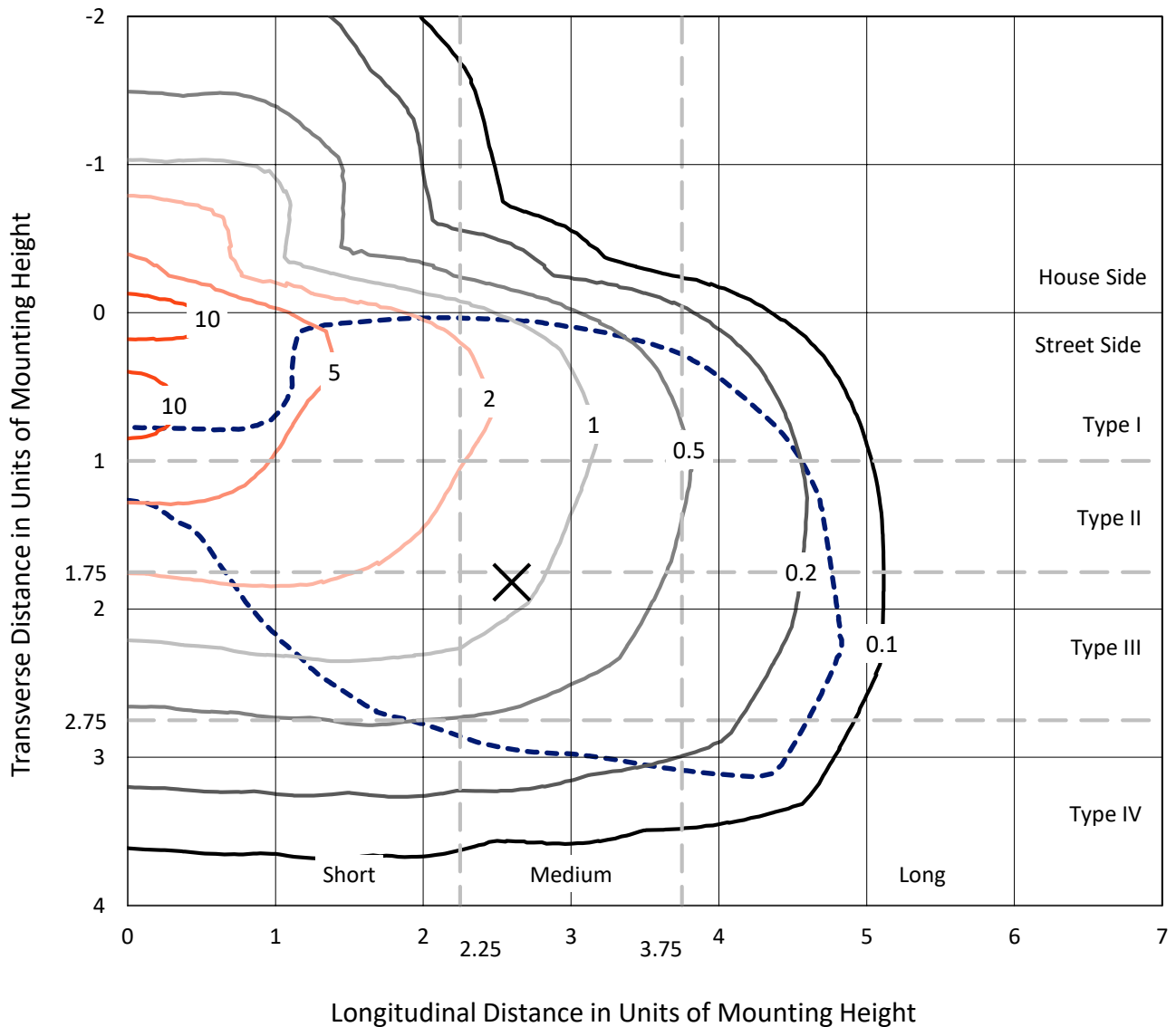
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

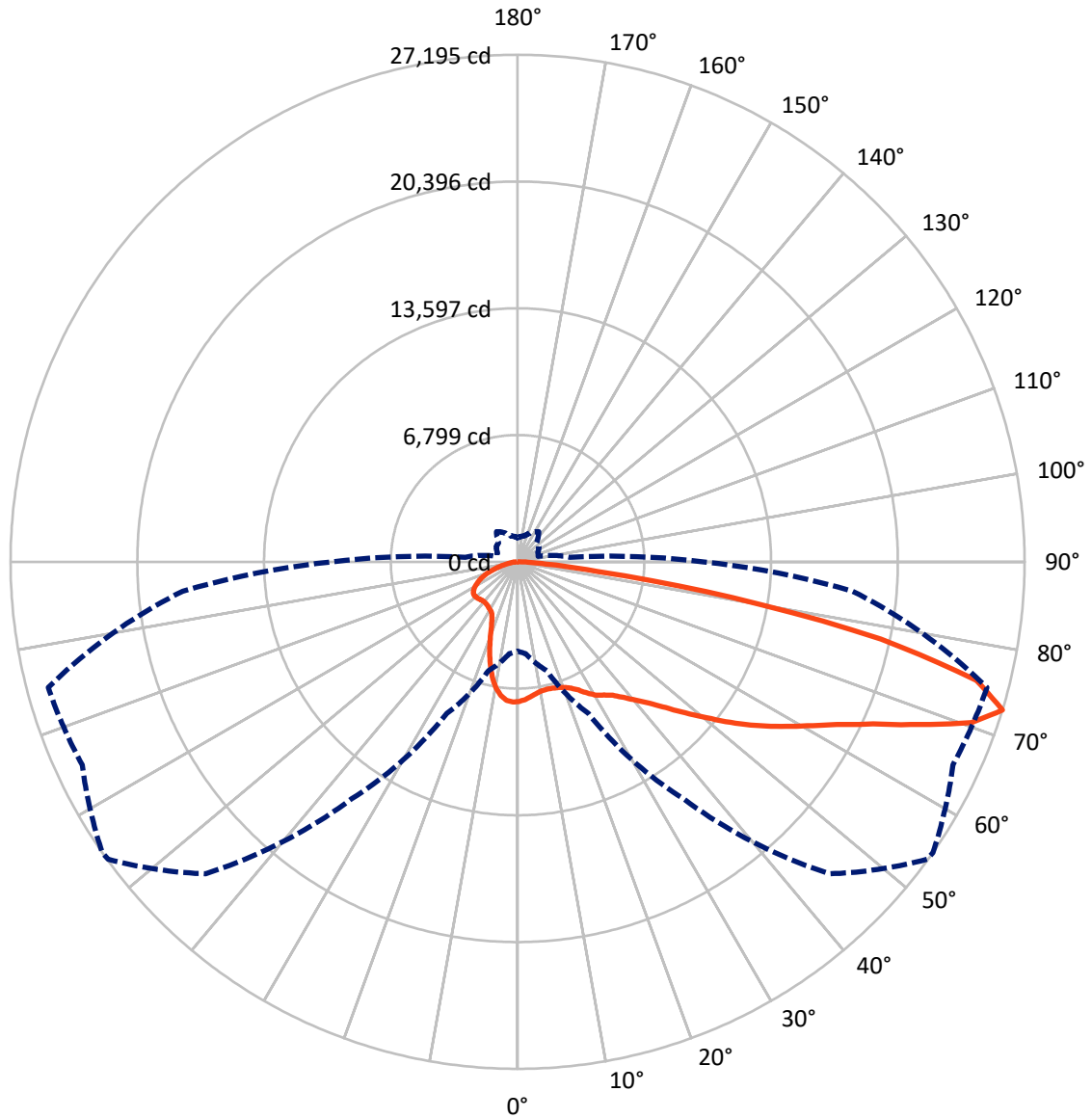
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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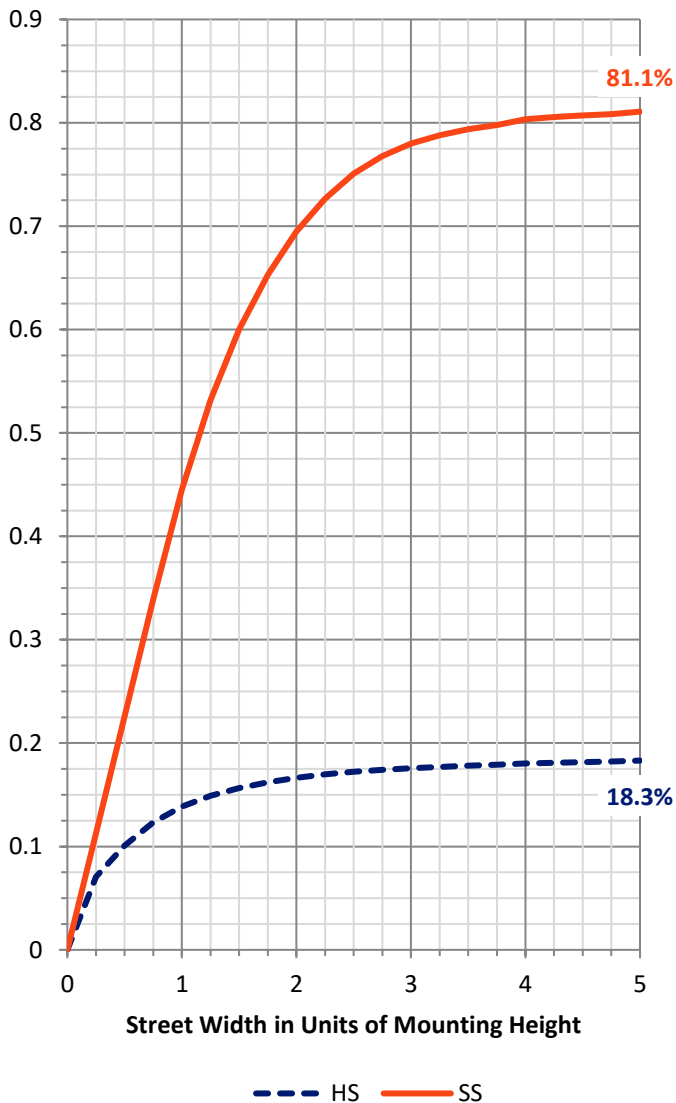
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7901.8	0.0	7901.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	34611.2	0.0	34611.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	42513.0	0.0	42513.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.5	1.6
10°-20°	1806.5	4.2
20°-30°	2978.4	7.0
30°-40°	4405.8	10.4
40°-50°	6149.6	14.5
50°-60°	8006.9	18.8
60°-70°	9840.3	23.1
70°-80°	7713.6	18.1
80°-90°	933.5	2.2
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°	42513.0	100.0
0°-180°	42513.0	100.0

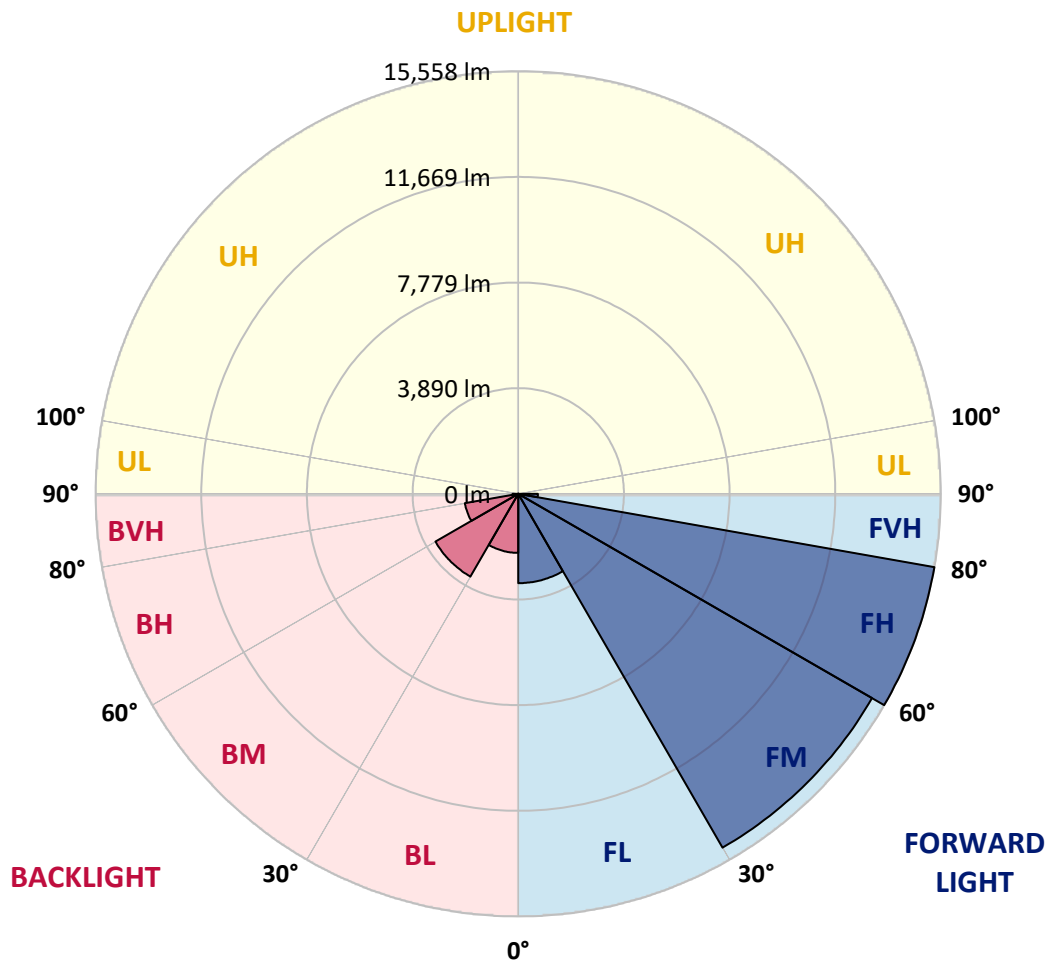


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3289.3	7.7			
FM (30°-60°)	15041.9	35.4			
FH (60°-80°)	15558.3	36.6			G5
FVH (80°-90°)	721.7	1.7			G4/750
BL (0°-30°)	2174.1	5.1	B3/2500		
BM (30°-60°)	3520.4	8.3	B3/5000		
BH (60°-80°)	1995.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	211.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7498.4	7498.4	7498.4	7498.4	7498.4	7498.4	7498.4	7498.4	7498.4	7498.4	7498.4
2.5°	7254.3	7237.0	7258.6	7288.7	7321.8	7366.3	7392.1	7403.6	7448.1	7465.4	7502.7
5°	6918.3	6909.7	6945.5	6997.2	7070.5	7173.9	7257.1	7272.9	7390.7	7474.0	7550.1
7.5°	6674.2	6674.2	6715.8	6777.5	6859.4	6998.7	7116.4	7138.0	7337.6	7517.0	7657.8
10°	6480.3	6487.5	6536.3	6609.5	6705.8	6853.7	7010.2	7034.6	7323.2	7617.6	7841.6
12.5°	6351.1	6368.3	6412.8	6478.9	6598.1	6777.5	6975.7	7008.7	7353.4	7761.2	8062.7
15°	6432.9	6461.6	6466.0	6493.2	6559.3	6754.6	6995.8	7030.3	7418.0	7907.6	8314.0
17.5°	6791.9	6802.0	6757.4	6700.0	6668.4	6793.3	7056.1	7092.0	7495.5	8052.6	8555.2
20°	7337.6	7331.8	7235.6	7080.5	6919.7	6939.8	7155.2	7192.5	7600.3	8180.4	8796.5
22.5°	8026.8	8006.7	7858.8	7573.0	7298.8	7183.9	7328.9	7360.5	7758.3	8362.8	9054.9
25°	8862.5	8818.0	8622.7	8239.3	7835.8	7540.0	7590.3	7620.4	7988.0	8566.7	9291.8
27.5°	9744.2	9699.6	9451.2	8987.4	8450.4	7989.5	7950.7	7976.5	8249.4	8717.5	9467.0
30°	10666.0	10618.6	10391.8	9872.0	9102.3	8454.7	8286.7	8296.8	8433.2	8799.3	9610.6
32.5°	11592.2	11547.7	11293.5	10690.4	9810.2	8954.4	8529.4	8516.4	8543.7	8884.0	9772.9
35°	12531.3	12548.5	12251.3	11583.6	10594.2	9510.1	8816.6	8789.3	8729.0	9057.8	10002.6
37.5°	13536.4	13524.9	13140.1	12442.3	11414.1	10113.2	9228.7	9224.4	9016.1	9386.6	10363.0
40°	14208.4	14215.6	13981.6	13321.0	12242.7	10780.9	9757.1	9747.0	9474.2	9879.1	10835.5
42.5°	14471.2	14518.6	14578.9	14159.6	13110.0	11554.9	10387.5	10373.1	10113.2	10585.6	11391.2
45°	14489.9	14584.6	14958.0	14904.9	13988.7	12440.8	11193.0	11152.8	10966.1	11524.7	12054.6
47.5°	14329.1	14426.7	15047.0	15348.6	14774.2	13375.6	12135.0	12103.4	11942.6	12699.3	12772.5
50°	13977.3	14070.6	14863.2	15565.4	15420.4	14274.5	13220.5	13137.2	13051.1	14056.2	13593.9
52.5°	13318.2	13497.7	14617.7	15617.1	15806.6	15072.9	14362.1	14307.5	14354.9	15487.8	14416.6
55°	11757.3	11958.3	13984.4	15574.0	16092.4	15743.4	15503.6	15500.8	15746.3	16989.8	15299.7
57.5°	10882.8	11025.0	12695.0	15500.8	16431.2	16409.7	16633.7	16661.0	17139.2	18625.3	16224.5
60°	10388.9	10538.2	12041.6	15229.4	16956.8	17271.3	17786.8	17841.3	18555.0	20436.0	17337.3
62.5°	9939.4	10103.1	11636.7	14676.5	17575.7	18503.3	19168.1	19216.9	20054.1	22297.0	18412.8
65°	9171.2	9356.5	11043.7	14313.3	18138.6	20110.1	20924.2	20957.3	21775.7	24247.0	19235.6
67.5°	8085.7	8255.1	9925.1	13510.6	18555.0	22061.5	23259.0	23277.7	23483.0	25624.0	19656.3
70°	6817.8	6882.4	8331.2	11853.5	18062.4	23886.5	25817.9	25822.2	25039.6	26505.7	19587.4
72.5°	4790.2	4942.4	6048.1	8973.1	15522.3	23664.0	27146.1	27194.9	25763.3	26060.5	18022.2
75°	2937.9	3098.7	3793.7	5437.8	9847.5	18611.0	25081.2	25420.1	24406.3	23236.1	14722.5
77.5°	1964.3	2024.6	2475.5	3170.5	4461.4	10707.7	19283.0	19920.5	20275.2	16945.3	9415.3
80°	1095.6	1210.5	1641.3	1970.1	1984.4	4254.6	11562.0	11711.4	11280.6	6747.4	2904.9
82.5°	580.1	643.3	1095.6	1157.4	1082.7	1424.4	4309.2	4313.5	3604.2	1809.3	863.0
85°	449.4	502.6	751.0	706.5	552.8	631.8	1421.6	1499.1	1226.3	740.9	281.4
87.5°	224.0	278.6	509.8	448.0	216.8	180.9	508.3	542.8	483.9	290.1	102.0
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°	7498.4	7498.4	7498.4	7498.4	7498.4	7498.4	7498.4	7498.4	7498.4	7498.4	7498.4
2.5°	7517.0	7530.0	7545.8	7528.5	7522.8	7499.8	7461.0	7452.4	7432.3	7433.8	7445.2
5°	7583.1	7604.6	7596.0	7530.0	7451.0	7340.4	7225.6	7127.9	7063.3	7059.0	7054.7
7.5°	7709.5	7723.8	7656.3	7468.2	7247.1	6991.5	6750.3	6539.2	6411.4	6379.8	6372.6
10°	7907.6	7904.7	7719.5	7340.4	6899.6	6443.0	6055.3	5762.4	5591.5	5541.2	5528.3
12.5°	8128.7	8095.7	7741.0	7107.8	6408.5	5775.3	5284.2	4958.2	4780.2	4722.7	4708.4
15°	8357.1	8275.2	7687.9	6760.3	5805.4	5055.9	4540.4	4238.8	4142.6	4111.0	4105.3
17.5°	8569.6	8411.6	7535.7	6289.3	5117.6	4339.4	3937.3	3816.7	3839.7	3881.3	3882.7
20°	8777.8	8503.5	7291.6	5694.9	4392.5	3749.2	3612.8	3701.8	3810.9	3895.7	3907.1
22.5°	8983.1	8568.1	6977.1	5008.5	3743.4	3417.5	3513.7	3676.0	3800.9	3892.8	3908.6
25°	9155.4	8583.9	6543.5	4276.2	3292.6	3292.6	3466.3	3620.0	3743.4	3833.9	3849.7
27.5°	9218.6	8477.7	5931.8	3598.4	3065.7	3235.1	3400.3	3528.1	3632.9	3729.1	3746.3
30°	9243.0	8281.0	5225.3	3054.2	2972.4	3173.4	3311.2	3420.4	3519.4	3609.9	3625.7
32.5°	9247.3	8044.0	4475.8	2745.5	2907.7	3108.8	3200.7	3296.9	3403.1	3439.0	3444.8
35°	9274.6	7764.0	3686.0	2587.5	2847.4	3048.5	3121.7	3190.6	3018.3	3031.2	3042.7
37.5°	9353.6	7486.9	3025.5	2498.5	2808.7	3016.9	3104.5	2854.6	2719.6	2688.0	2683.7
40°	9501.5	7191.1	2535.8	2426.7	2794.3	3032.7	2993.9	2665.1	2432.4	2258.7	2232.9
42.5°	9706.8	6872.3	2222.8	2379.3	2804.4	3108.8	2840.3	2482.7	2096.4	1984.4	1970.1
45°	9938.0	6537.7	2053.4	2346.3	2838.8	3167.6	2808.7	2240.0	1939.9	1855.2	1848.0
47.5°	10162.0	6128.5	1965.8	2331.9	2886.2	3120.3	2675.1	2165.4	1865.3	1820.7	1825.1
50°	10419.0	5759.5	1912.6	2316.1	2927.8	3090.1	2524.3	2126.6	1836.5	1891.1	1948.5
52.5°	10635.9	5377.5	1865.3	2284.6	2943.6	3037.0	2485.6	2133.8	1836.5	1941.4	1995.9
55°	10892.9	5088.9	1810.7	2218.5	2913.5	2886.2	2458.3	2176.9	1858.1	1792.0	1797.8
57.5°	11224.6	4994.1	1750.4	2115.1	2813.0	2666.5	2445.4	2218.5	1845.2	1803.5	1817.9
60°	11684.1	5094.6	1726.0	1980.1	2656.5	2494.2	2446.8	2197.0	1754.7	1682.9	1684.3
62.5°	12122.0	5206.6	1724.5	1895.4	2464.0	2340.6	2413.8	2126.6	1708.7	1667.1	1682.9
65°	12265.6	5093.2	1655.6	1800.6	2247.2	2156.8	2353.5	2051.9	1674.3	1611.1	1608.2
67.5°	12073.2	4741.4	1516.3	1647.0	1998.8	1942.8	2274.5	1962.9	1619.7	1568.0	1559.4
70°	11501.7	3956.0	1344.0	1444.5	1715.9	1701.6	2149.6	1859.5	1546.5	1502.0	1464.6
72.5°	9963.9	2818.7	1132.9	1201.9	1397.2	1443.1	1977.3	1724.5	1443.1	1346.9	1289.5
75°	8183.3	2086.4	930.5	944.8	1061.1	1186.1	1740.3	1566.6	1321.0	1157.4	1112.8
77.5°	5011.4	1276.5	740.9	746.7	761.0	946.3	1433.0	1390.0	1166.0	964.9	933.3
80°	1622.6	696.4	535.6	562.9	519.8	693.5	1108.5	1183.2	1000.8	807.0	772.5
82.5°	617.4	406.4	361.9	380.5	360.4	465.2	808.4	947.7	819.9	663.4	539.9
85°	298.7	229.7	214.0	239.8	222.6	238.4	516.9	697.9	621.8	432.2	402.1
87.5°	106.3	102.0	81.8	110.6	94.8	84.7	158.0	351.8	410.7	297.2	265.6
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)