

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: P318844

Luminaire Tested: **GLEON-SA0B-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
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-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41831 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

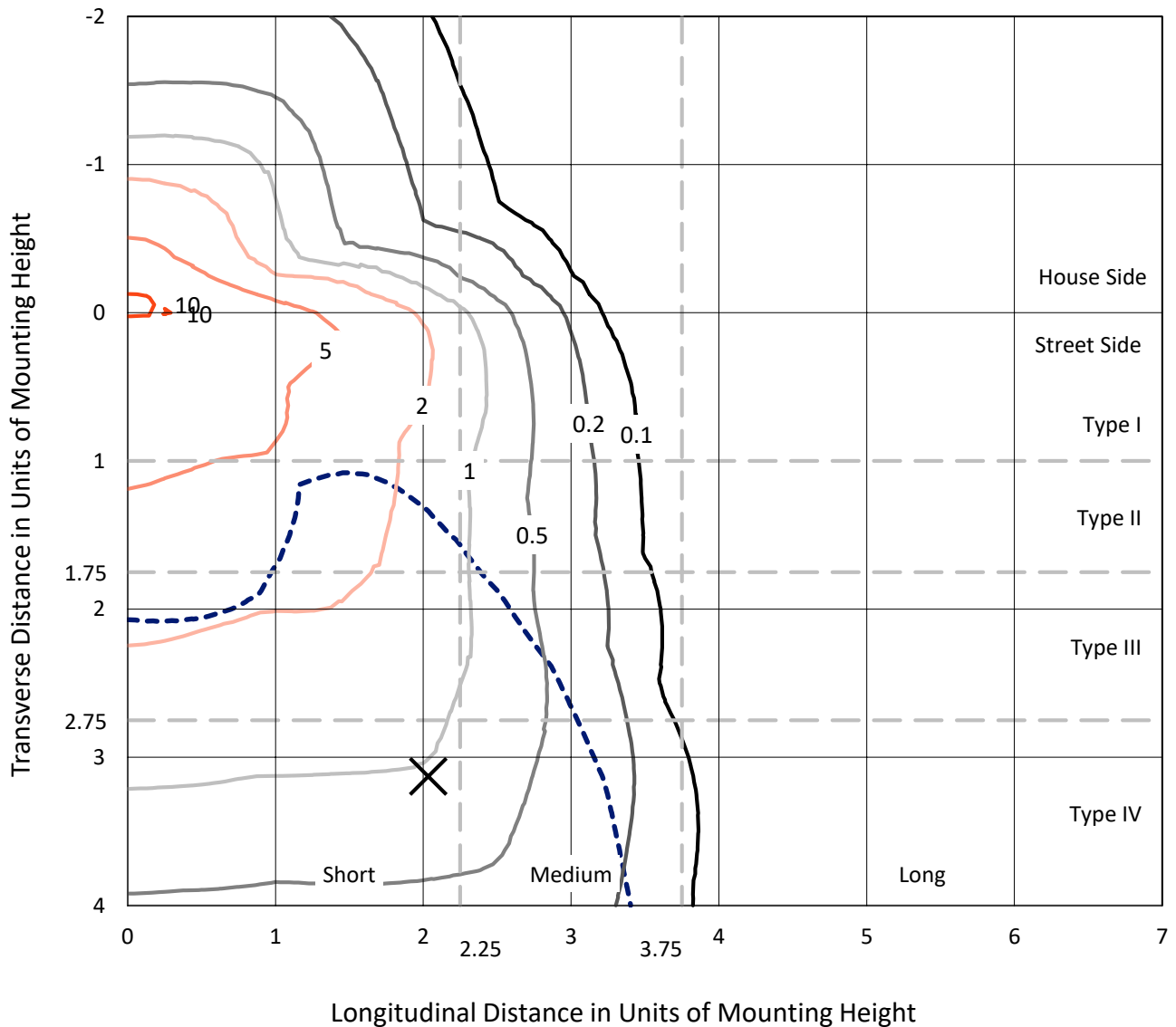
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

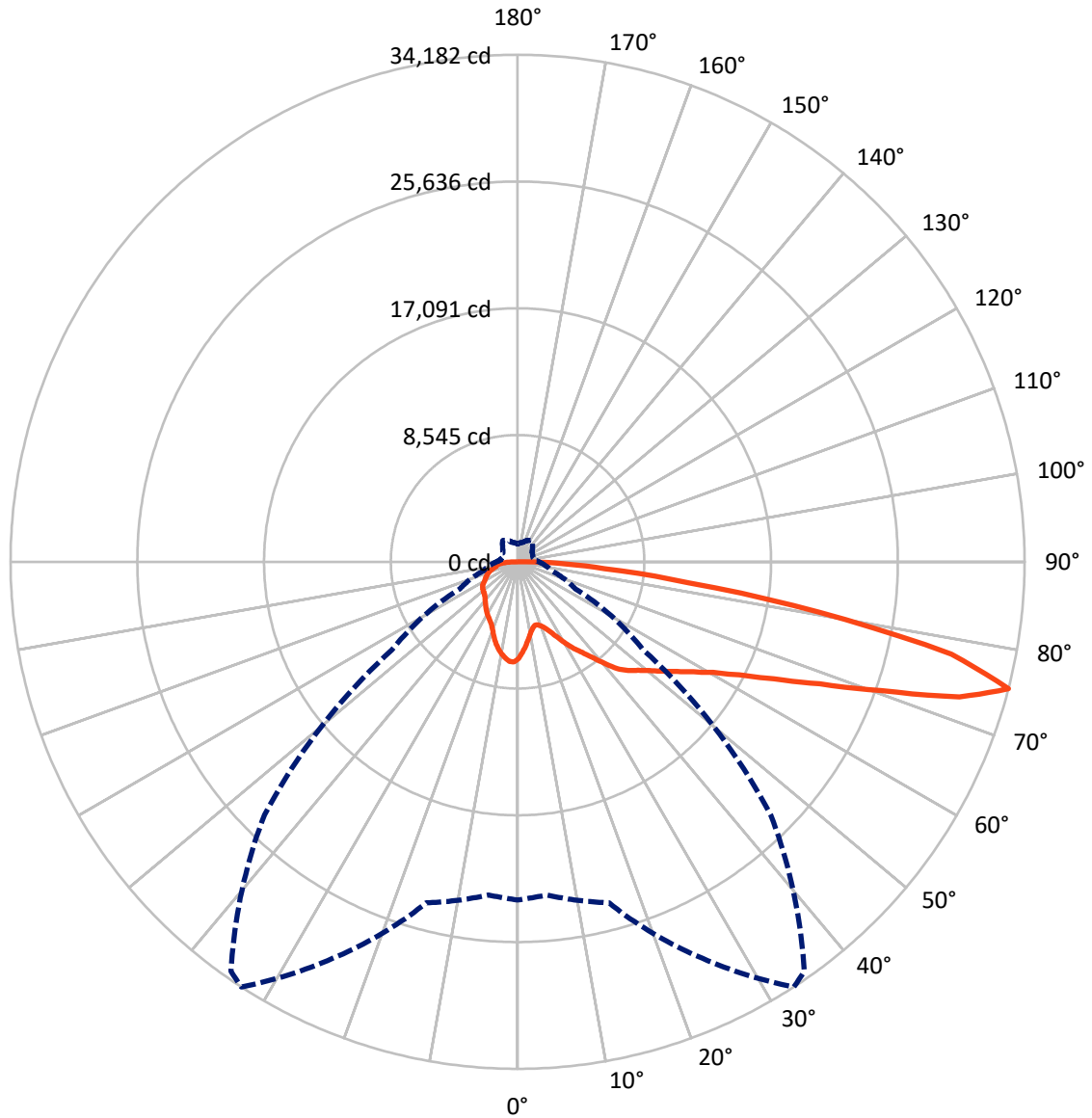
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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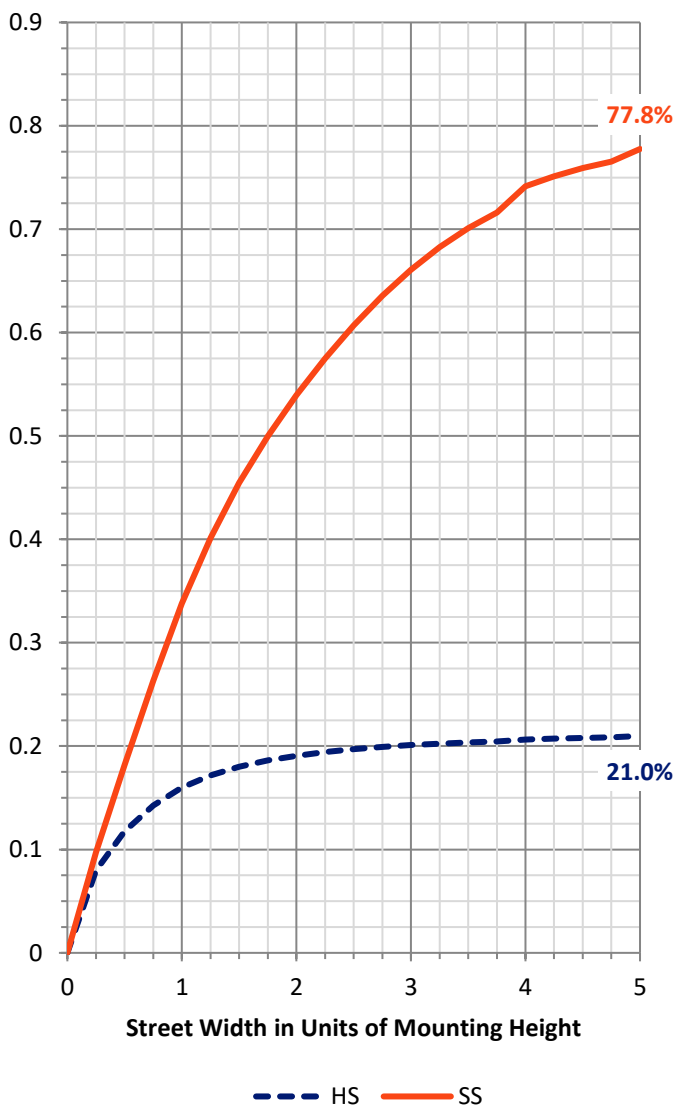
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8982.2	0.0	8982.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	32848.8	0.0	32848.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	41831.0	0.0	41831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.3	1.4
10°-20°	1601.5	3.8
20°-30°	2615.6	6.3
30°-40°	3895.2	9.3
40°-50°	5586.7	13.4
50°-60°	7669.7	18.3
60°-70°	9602.1	23.0
70°-80°	8686.6	20.8
80°-90°	1582.3	3.8
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°	41831.0	100.0
0°-180°	41831.0	100.0

Coefficient of Utilization



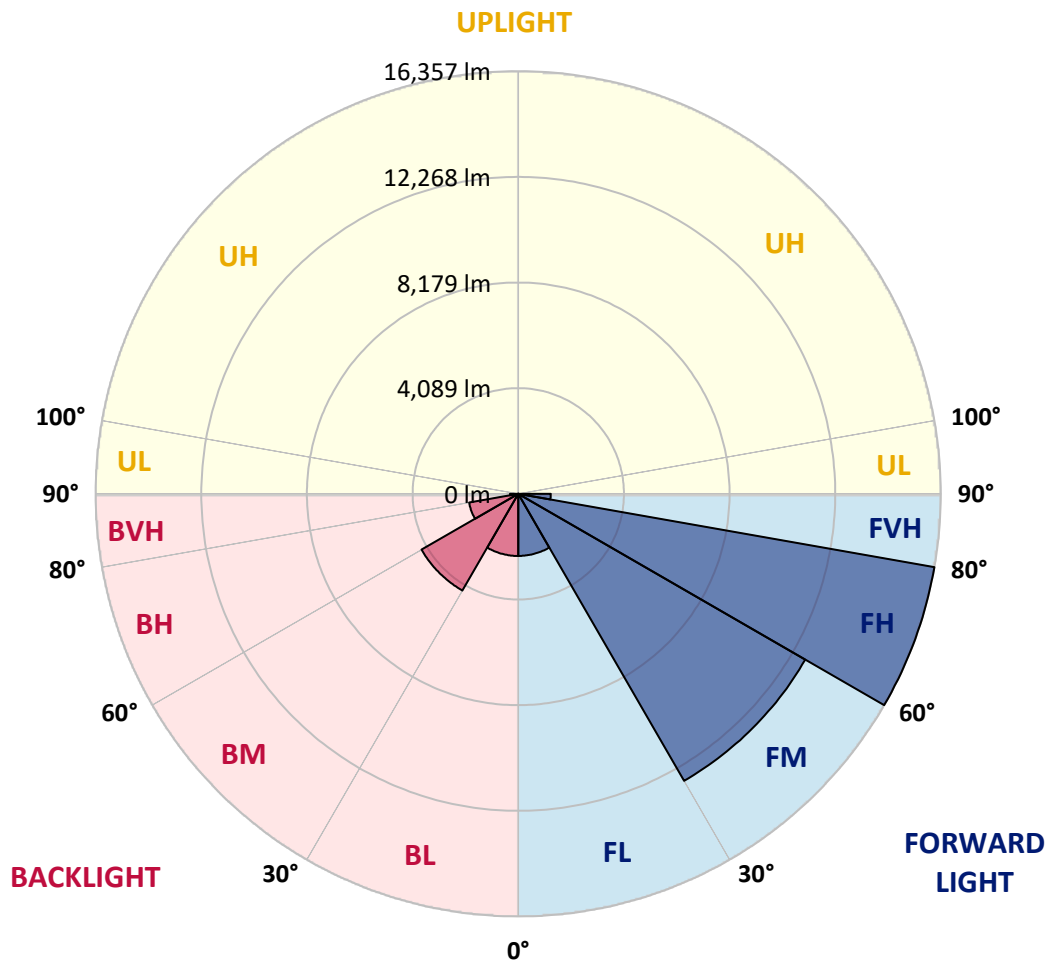
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2402.5	5.7			
FM (30°-60°)	12828.7	30.7			
FH (60°-80°)	16357.4	39.1			G5
FVH (80°-90°)	1260.2	3.0			G5
BL (0°-30°)	2405.9	5.8	B3/2500		
BM (30°-60°)	4322.9	10.3	B3/5000		
BH (60°-80°)	1931.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	322.1	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	6538.4	6538.4	6538.4	6538.4	6538.4	6538.4	6538.4	6538.4	6538.4	6538.4	6538.4
2.5°	6071.7	6048.6	6091.9	6097.7	6135.3	6149.7	6201.7	6282.7	6349.1	6425.7	6495.1
5°	5521.2	5505.3	5566.0	5609.3	5691.7	5726.4	5849.2	6021.1	6174.3	6347.7	6505.2
7.5°	4998.1	4989.4	5057.3	5155.6	5251.0	5298.6	5511.1	5761.0	6016.8	6297.1	6538.4
10°	4557.4	4554.5	4619.5	4716.3	4856.5	4910.0	5184.5	5513.9	5872.3	6258.1	6594.8
12.5°	4310.3	4320.4	4350.8	4431.7	4561.7	4615.2	4920.1	5307.3	5750.9	6245.1	6677.1
15°	4371.0	4386.9	4334.9	4332.0	4424.5	4466.4	4752.5	5159.9	5664.2	6266.8	6797.1
17.5°	4629.6	4632.5	4495.3	4408.6	4464.9	4486.6	4700.4	5076.1	5613.6	6315.9	6947.3
20°	4993.8	4986.5	4743.8	4599.3	4629.6	4635.4	4774.1	5077.6	5609.3	6401.1	7142.4
22.5°	5476.4	5422.9	5096.4	4899.8	4892.6	4883.9	4963.4	5184.5	5672.9	6539.9	7375.0
25°	6106.4	6055.8	5606.4	5337.7	5279.9	5258.2	5269.7	5412.8	5798.6	6688.7	7635.1
27.5°	6807.2	6719.0	6285.6	5905.5	5785.6	5755.3	5685.9	5735.0	5935.9	6831.7	7944.4
30°	7393.8	7346.1	6967.6	6516.7	6375.1	6331.8	6149.7	6096.3	6133.8	7026.8	8334.5
32.5°	7721.8	7690.0	7460.3	7096.2	6964.7	6904.0	6646.8	6539.9	6451.7	7334.6	8863.4
35°	8119.2	8099.0	7960.3	7695.8	7500.8	7437.2	7237.8	7126.5	6899.7	7758.0	9546.8
37.5°	8624.9	8603.3	8606.1	8392.3	8159.7	8100.4	7968.9	7851.9	7480.5	8314.3	10289.5
40°	9197.1	9155.2	9139.3	9129.2	8981.8	8948.6	8879.2	8720.3	8208.8	8978.9	11022.1
42.5°	10058.3	9909.5	9591.6	9711.5	9857.5	9840.1	9896.5	9668.2	9018.0	9765.0	11737.4
45°	10889.2	10645.0	10095.9	10121.9	10441.2	10538.1	10960.0	10798.1	9895.0	10626.2	12477.2
47.5°	11267.8	11082.8	10616.1	10617.5	10934.0	11134.8	12059.6	11944.0	10816.9	11604.4	13380.3
50°	11691.1	11506.2	11087.1	11244.6	11520.6	11734.5	13121.6	13062.4	11694.0	12675.1	14462.6
52.5°	12153.5	11840.0	11574.1	11855.9	12243.1	12491.6	14185.1	14023.3	12498.9	13753.1	15706.7
55°	12159.3	12074.0	12276.3	12483.0	13062.4	13367.3	15299.2	14871.5	13154.9	14812.2	16719.6
57.5°	12851.4	12712.7	13141.9	13237.2	13994.4	14338.3	16407.5	15609.8	13822.4	15624.3	17265.8
60°	13767.5	13649.0	14000.2	14251.6	15147.5	15607.0	17590.9	16368.4	14347.0	16237.0	17239.8
62.5°	15349.8	15215.4	15211.0	15563.6	16770.1	17304.8	18918.8	17112.6	14555.0	16358.3	16504.3
65°	17666.0	17452.2	17049.0	17216.6	19011.3	19544.5	20402.8	17651.6	14280.5	15708.1	14609.9
67.5°	19920.1	19912.9	19417.3	19761.2	21970.5	22398.2	22093.4	17705.0	13423.6	13443.9	11249.0
70°	22167.0	22195.9	22112.1	23308.6	25968.7	26413.8	23893.8	16986.9	11497.5	9708.7	6739.3
72.5°	23947.2	23940.0	24361.9	27446.9	31157.6	31057.9	25411.0	14810.8	8255.0	5240.9	3220.8
75°	22794.2	22542.7	23799.8	29495.9	34181.8	33694.9	24120.6	10331.4	4284.3	2385.6	1733.9
77.5°	14867.1	15105.6	16950.8	24366.3	29899.0	29306.6	17696.4	4820.4	2018.6	1564.9	1257.1
80°	5383.9	5635.3	7937.1	13802.2	20599.3	20502.5	8714.5	1981.0	1365.5	1182.0	916.1
82.5°	1852.4	1944.9	3131.2	6129.5	11630.4	12063.9	3278.6	1125.6	992.7	838.1	627.1
85°	726.8	832.3	1432.0	2949.2	5866.5	5909.9	1327.9	673.3	690.7	549.1	343.9
87.5°	276.0	335.2	684.9	1369.8	2678.9	2460.8	475.4	320.8	393.0	326.6	163.3
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°	6538.4	6538.4	6538.4	6538.4	6538.4	6538.4	6538.4	6538.4	6538.4	6538.4	6538.4
2.5°	6548.5	6578.9	6642.5	6685.8	6732.0	6745.0	6750.8	6762.4	6773.9	6769.6	6771.1
5°	6589.0	6648.2	6750.8	6794.2	6814.4	6791.3	6746.5	6710.4	6684.4	6669.9	6665.6
7.5°	6655.5	6739.3	6849.1	6841.9	6795.6	6693.0	6577.4	6490.7	6418.5	6392.5	6378.0
10°	6743.6	6841.9	6918.4	6836.1	6701.7	6524.0	6350.6	6216.2	6107.8	6065.9	6058.7
12.5°	6856.3	6956.0	6970.5	6795.6	6573.1	6330.3	6094.8	5917.1	5755.3	5703.2	5691.7
15°	7002.3	7096.2	7006.6	6724.8	6414.2	6087.6	5782.7	5541.4	5370.9	5307.3	5284.2
17.5°	7155.4	7245.0	7013.8	6607.8	6206.1	5800.0	5417.1	5170.0	4975.0	4901.3	4892.6
20°	7338.9	7379.4	6983.5	6440.2	5920.0	5427.2	5024.1	4791.5	4687.4	4635.4	4629.6
22.5°	7565.8	7522.4	6914.1	6213.3	5557.3	4996.7	4668.6	4560.3	4534.3	4522.7	4527.0
25°	7805.6	7672.7	6811.5	5917.1	5099.2	4566.1	4408.6	4438.9	4473.6	4469.2	4469.2
27.5°	8070.1	7825.9	6654.0	5524.1	4592.1	4213.5	4232.3	4343.5	4395.6	4394.1	4392.7
30°	8409.6	7999.3	6453.2	5051.6	4118.1	3965.0	4079.1	4214.9	4285.7	4282.8	4284.3
32.5°	8827.2	8190.0	6180.1	4524.2	3775.7	3781.4	3912.9	4047.3	4129.7	4122.5	4123.9
35°	9315.6	8403.9	5810.2	4004.0	3548.8	3635.5	3739.5	3833.5	3911.5	3901.4	3891.3
37.5°	9847.4	8613.4	5318.9	3538.7	3363.9	3499.7	3586.4	3602.3	3638.4	3612.4	3593.6
40°	10353.1	8773.8	4686.0	3157.2	3177.5	3384.1	3440.4	3376.9	3311.8	3303.2	3277.2
42.5°	10793.8	8827.2	4045.9	2852.3	2980.9	3262.7	3297.4	3164.5	3047.4	2992.5	2969.4
45°	11259.1	8846.0	3449.1	2596.6	2791.7	3154.3	3191.9	3014.2	2849.5	2731.0	2692.0
47.5°	11867.4	8981.8	2985.3	2407.3	2647.2	3082.1	3135.6	2894.2	2680.4	2511.3	2475.2
50°	12663.6	9250.6	2608.1	2262.8	2553.2	3034.4	3095.1	2777.2	2541.7	2337.9	2301.8
52.5°	13547.9	9497.7	2303.3	2145.8	2462.2	2950.6	3043.1	2693.4	2411.6	2177.5	2138.5
55°	14166.3	9308.4	2057.6	2024.4	2343.7	2830.7	2970.8	2622.6	2225.2	2021.5	1986.8
57.5°	14284.8	8661.1	1871.2	1898.7	2200.7	2680.4	2859.6	2465.1	2124.1	1953.6	1917.5
60°	13961.2	7759.4	1732.5	1783.1	2047.5	2491.1	2651.5	2353.8	2027.3	1881.3	1851.0
62.5°	13147.6	6836.1	1629.9	1679.0	1904.5	2298.9	2521.4	2236.8	1929.0	1799.0	1768.6
65°	11504.7	5739.4	1531.7	1586.6	1771.5	2132.8	2404.4	2128.4	1832.2	1732.5	1703.6
67.5°	8684.2	4298.7	1439.2	1488.3	1653.0	1988.3	2277.2	2021.5	1738.3	1674.7	1640.0
70°	5113.7	2692.0	1333.7	1385.7	1528.8	1838.0	2141.4	1904.5	1621.2	1592.3	1547.5
72.5°	2379.8	1619.8	1213.8	1264.3	1372.7	1637.1	1966.6	1751.3	1482.5	1418.9	1358.3
75°	1420.4	1184.9	1072.2	1116.9	1193.5	1423.3	1747.0	1595.2	1351.0	1267.2	1203.6
77.5°	1062.0	906.0	916.1	963.8	1025.9	1245.6	1547.5	1472.4	1249.9	1184.9	1141.5
80°	764.4	687.8	747.0	799.1	864.1	1132.8	1482.5	1361.1	1130.0	1043.3	1002.8
82.5°	510.1	494.2	562.1	615.6	679.1	991.2	1392.9	1192.1	965.2	855.4	765.8
85°	281.8	297.7	378.6	401.7	456.6	697.9	1141.5	958.0	726.8	585.2	559.2
87.5°	117.0	137.3	203.7	196.5	242.8	416.1	751.4	578.0	462.4	345.3	268.8
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)