

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: P319473

Luminaire Tested: **GLEON-SA9A-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9A-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30002 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

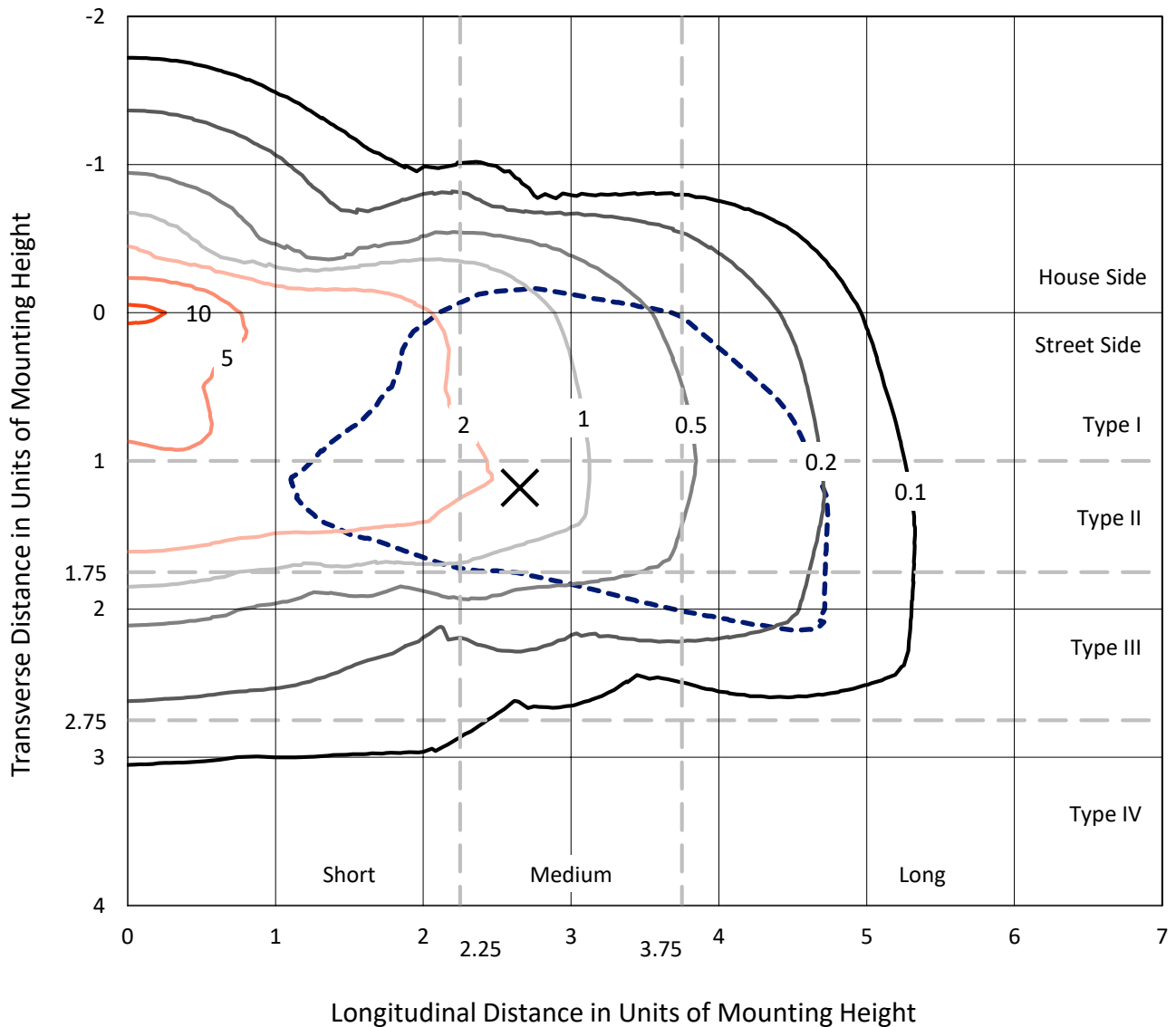
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

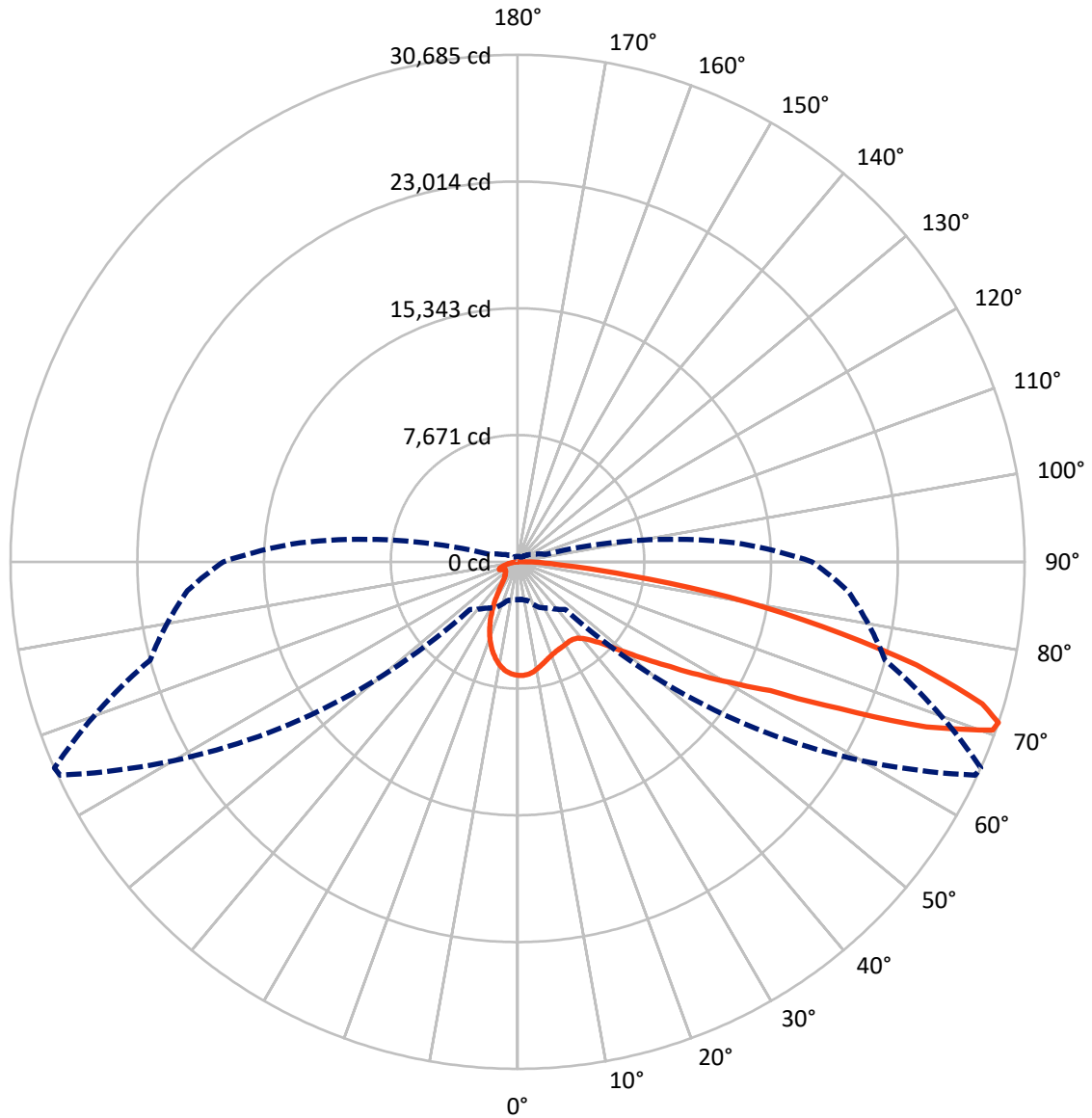
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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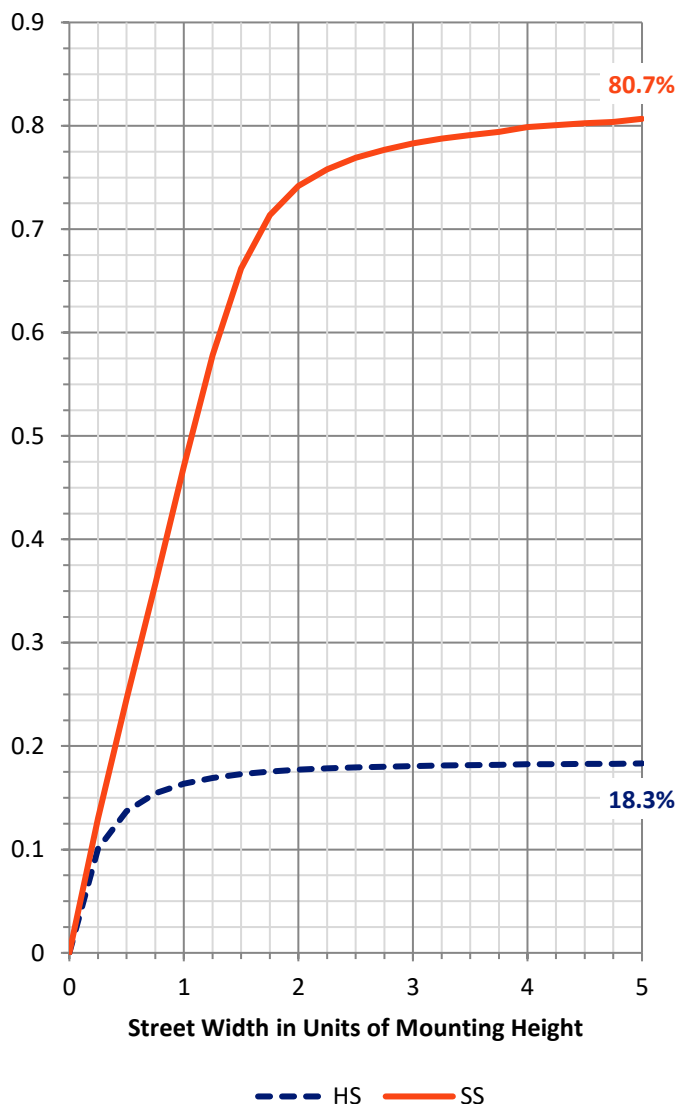
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5560.2	0.0	5560.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	24441.8	0.0	24441.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	30002.0	0.0	30002.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.0	2.0
10°-20°	1451.0	4.8
20°-30°	1949.1	6.5
30°-40°	2563.9	8.5
40°-50°	3729.9	12.4
50°-60°	5826.5	19.4
60°-70°	7298.6	24.3
70°-80°	5567.2	18.6
80°-90°	1010.9	3.4
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°	30002.0	100.0
0°-180°	30002.0	100.0

Coefficient of Utilization

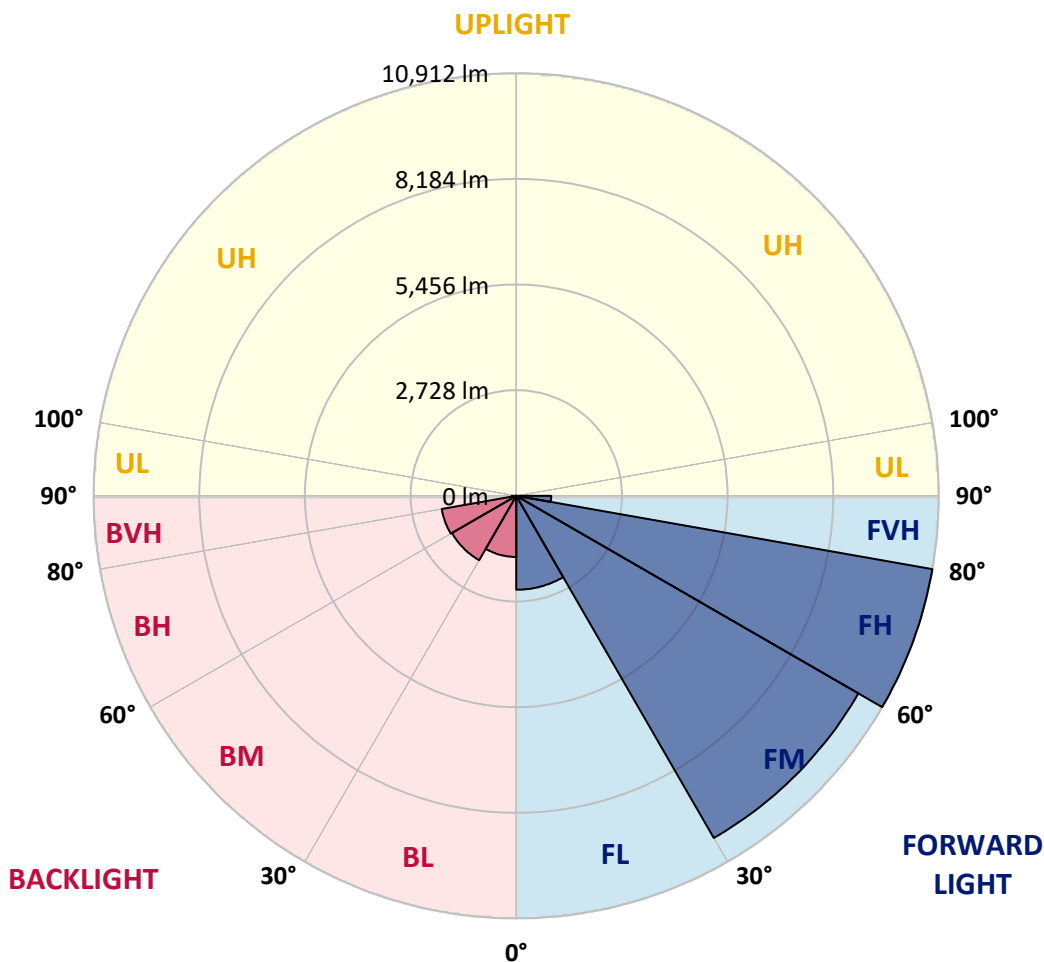


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2426.1	8.1			
FM (30°-60°)	10202.2	34.0			
FH (60°-80°)	10912.0	36.4			G4/12000
FVH (80°-90°)	901.5	3.0			G5
BL (0°-30°)	1578.9	5.3	B3/2500		
BM (30°-60°)	1918.1	6.4	B2/2500		
BH (60°-80°)	1953.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	109.4	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6872.9	6872.9	6872.9	6872.9	6872.9	6872.9	6872.9	6872.9	6872.9	6872.9	6872.9
2.5°	6745.5	6735.1	6766.2	6798.3	6810.7	6831.4	6862.5	6880.1	6879.1	6882.2	6871.8
5°	6298.0	6284.5	6346.7	6397.4	6494.8	6604.6	6738.2	6833.5	6835.6	6889.5	6904.0
7.5°	5874.3	5865.0	5936.5	6018.3	6131.2	6299.0	6515.5	6720.6	6733.0	6879.1	6929.8
10°	5534.6	5532.5	5601.9	5691.0	5822.5	6010.0	6258.6	6559.0	6577.7	6829.4	6934.0
12.5°	5269.4	5273.5	5333.6	5435.1	5573.9	5769.7	6039.0	6377.7	6407.8	6750.6	6910.2
15°	5073.6	5090.2	5138.9	5241.4	5378.1	5577.0	5853.6	6209.9	6255.5	6662.6	6896.7
17.5°	4961.7	4980.4	5014.6	5099.5	5227.9	5419.6	5681.6	6072.2	6113.6	6595.3	6897.7
20°	4928.6	4944.1	4963.8	5015.6	5124.4	5298.4	5546.0	5947.9	5992.4	6541.4	6908.1
22.5°	4993.8	5005.2	5007.3	5003.2	5069.5	5211.4	5447.5	5856.7	5904.4	6506.2	6915.3
25°	5133.7	5149.2	5137.8	5099.5	5077.7	5164.8	5396.8	5796.6	5844.3	6480.3	6900.8
27.5°	5344.0	5346.0	5336.7	5287.0	5184.4	5169.9	5381.3	5761.4	5807.0	6450.2	6870.8
30°	5629.9	5643.3	5626.7	5559.4	5391.6	5252.8	5399.9	5727.2	5768.7	6411.9	6822.1
32.5°	5964.4	5997.6	5996.5	5926.1	5685.8	5438.2	5476.5	5706.5	5738.6	6371.5	6763.1
35°	6311.4	6357.0	6442.0	6411.9	6114.6	5731.4	5623.6	5739.7	5761.4	6366.3	6721.6
37.5°	6671.9	6717.5	6892.6	6973.4	6625.3	6150.9	5855.7	5856.7	5867.1	6429.5	6718.5
40°	7049.0	7097.7	7360.8	7571.0	7287.2	6682.3	6229.6	6101.2	6089.8	6584.9	6779.7
42.5°	7577.3	7620.8	7936.7	8205.0	8021.6	7362.8	6746.5	6478.2	6454.4	6889.5	6975.4
45°	8245.4	8282.7	8618.3	8905.2	8811.0	8139.7	7396.0	6997.2	6993.0	7397.0	7372.2
47.5°	9039.9	9068.9	9370.3	9647.9	9682.1	9033.7	8212.2	7797.9	7730.6	8093.1	7986.4
50°	9867.5	9899.6	10104.7	10403.1	10656.8	10230.1	9262.6	8778.8	8688.7	9011.9	8856.5
52.5°	10415.5	10458.0	10636.1	11014.2	11752.8	11541.5	10504.6	9968.0	9831.3	10125.5	10006.3
55°	10171.0	10266.3	10538.8	11144.7	12629.1	13544.8	12036.6	11355.0	11200.7	11445.1	11374.7
57.5°	9059.6	9190.1	9561.9	10497.3	12752.4	15309.9	14352.8	12988.5	12879.8	12809.3	12841.5
60°	7028.3	7153.6	7614.5	8833.7	11893.7	16598.5	17838.4	15002.2	14844.8	14178.7	14207.7
62.5°	4974.2	4911.0	5226.9	6118.8	9664.5	16749.7	21804.7	17695.5	17177.5	15624.8	15497.4
65°	3793.3	3778.8	3920.7	4204.5	5853.6	14940.1	24167.5	22222.1	21413.1	17325.7	17025.3
67.5°	3116.9	3091.0	3230.8	3644.1	3769.5	9638.6	24219.3	27473.9	26679.4	19442.9	18792.4
70°	2562.7	2533.7	2664.2	3197.7	3483.6	4888.2	20383.5	30549.3	30506.9	22123.7	20126.6
71°	2297.5	2276.8	2433.2	3025.7	3422.5	4074.0	17599.1	30557.6	30685.0	23031.1	20047.9
72.5°	1870.7	1878.0	2043.7	2693.2	3376.9	3597.5	12934.7	29133.3	29402.7	23896.1	19332.1
75°	1243.0	1249.2	1466.8	2071.7	3274.3	3519.8	7109.1	24446.1	24941.2	23378.1	17640.6
77.5°	834.9	832.8	981.0	1421.2	2852.7	3519.8	4168.3	18283.8	18827.6	18601.8	13599.7
80°	574.9	570.8	675.4	981.0	2159.8	3562.3	3222.5	12813.5	12978.2	10045.7	5527.3
82.5°	352.2	355.3	441.3	693.0	1469.9	3206.0	3042.3	6986.8	6807.6	2817.5	1380.8
85°	202.0	201.0	281.8	469.2	943.7	2705.6	2966.7	3007.1	2758.5	848.4	499.3
87.5°	72.5	77.7	151.2	260.0	540.7	1884.2	2517.1	1564.1	1409.8	383.3	225.8
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°	6872.9	6872.9	6872.9	6872.9	6872.9	6872.9	6872.9	6872.9	6872.9	6872.9	6872.9
2.5°	6864.6	6870.8	6863.6	6822.1	6786.9	6729.9	6697.8	6653.3	6639.8	6633.6	6650.2
5°	6890.5	6892.6	6831.4	6722.7	6600.4	6456.5	6352.9	6225.5	6165.4	6139.5	6156.1
7.5°	6914.3	6905.0	6771.4	6563.2	6337.3	6086.7	5864.0	5659.9	5540.8	5492.1	5496.2
10°	6917.4	6878.1	6663.6	6341.5	5991.4	5623.6	5281.8	4966.9	4768.0	4638.5	4677.9
12.5°	6885.3	6819.0	6505.1	6054.6	5568.7	5067.4	4605.4	4133.0	3849.2	3717.7	3721.8
15°	6860.4	6740.3	6310.4	5716.9	5064.3	4400.3	3769.5	3214.2	2911.8	2777.1	2713.9
17.5°	6839.7	6655.3	6084.6	5336.7	4468.7	3626.5	2868.3	2373.1	2207.4	2168.0	2151.5
20°	6810.7	6565.2	5832.9	4896.5	3790.2	2760.5	2094.5	1850.0	1851.1	1896.6	1902.9
22.5°	6770.3	6462.7	5564.6	4402.4	3062.0	2010.6	1641.8	1571.4	1642.9	1729.9	1745.4
25°	6710.2	6341.5	5266.3	3856.5	2334.8	1545.5	1402.5	1399.4	1486.4	1577.6	1591.1
27.5°	6625.3	6183.0	4934.8	3270.2	1720.6	1313.5	1256.5	1278.2	1342.5	1408.8	1413.9
30°	6511.4	5998.6	4569.1	2651.8	1348.7	1169.5	1163.3	1182.9	1222.3	1268.9	1273.1
32.5°	6386.0	5811.1	4178.6	2053.1	1155.0	1091.8	1098.0	1107.3	1126.0	1144.6	1148.8
35°	6272.1	5619.5	3778.8	1560.0	1062.8	1041.0	1036.9	1034.8	1036.9	1030.7	1031.7
37.5°	6198.5	5461.0	3362.4	1242.0	1010.0	996.5	984.1	968.5	950.9	940.6	942.6
40°	6171.6	5342.9	2940.8	1073.1	966.4	957.1	933.3	900.2	879.4	873.2	873.2
42.5°	6244.1	5281.8	2533.7	988.2	930.2	914.7	875.3	837.0	821.4	820.4	819.4
45°	6465.8	5306.7	2146.3	941.6	897.0	867.0	815.2	783.1	772.7	774.8	773.8
47.5°	6863.6	5463.1	1814.8	910.5	863.9	824.5	766.5	740.6	728.2	728.2	729.2
50°	7540.0	5828.7	1550.7	884.6	835.9	785.2	731.3	699.2	682.6	681.6	681.6
52.5°	8525.1	6483.4	1386.0	862.9	804.9	750.0	696.1	655.7	636.0	631.9	629.8
55°	9759.8	7421.9	1340.4	848.4	763.4	711.6	653.6	613.2	591.5	582.1	581.1
57.5°	11140.6	8563.4	1430.5	830.8	721.0	666.1	607.0	568.7	545.9	534.5	533.5
60°	12538.0	9809.5	1798.2	805.9	685.7	616.3	559.4	524.1	501.4	488.9	486.9
62.5°	13937.4	11123.0	2549.2	803.8	660.9	568.7	510.7	480.6	458.9	445.4	442.3
65°	15516.0	12560.7	3402.8	858.7	652.6	525.2	461.0	437.1	418.5	406.1	405.0
67.5°	17328.8	14183.9	3320.9	971.6	680.6	485.8	414.3	395.7	382.2	371.9	370.8
70°	18179.2	13930.1	2064.5	1051.4	719.9	447.5	369.8	356.3	346.0	338.7	335.6
71°	17822.9	13226.8	1730.9	1042.1	715.8	430.9	352.2	341.8	331.5	325.3	322.1
72.5°	16851.2	12062.5	1444.0	969.6	669.2	400.9	329.4	319.0	309.7	302.5	300.4
75°	15121.4	10772.9	1156.0	774.8	533.5	338.7	289.0	277.6	270.4	266.2	262.1
77.5°	11115.7	7688.1	893.9	612.2	392.6	276.6	246.5	238.2	231.0	224.8	221.7
80°	4258.4	2978.1	601.8	456.8	288.0	218.6	198.9	194.7	187.5	183.3	183.3
82.5°	1146.7	889.8	321.1	276.6	192.7	159.5	152.3	150.2	144.0	135.7	136.7
85°	464.1	392.6	180.2	152.3	118.1	94.3	102.5	103.6	96.3	86.0	87.0
87.5°	204.1	166.8	100.5	67.3	51.8	36.3	46.6	46.6	42.5	35.2	32.1
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)