

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P638465

Luminaire Tested: GWS-SA4E-830-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-830-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24755.6 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

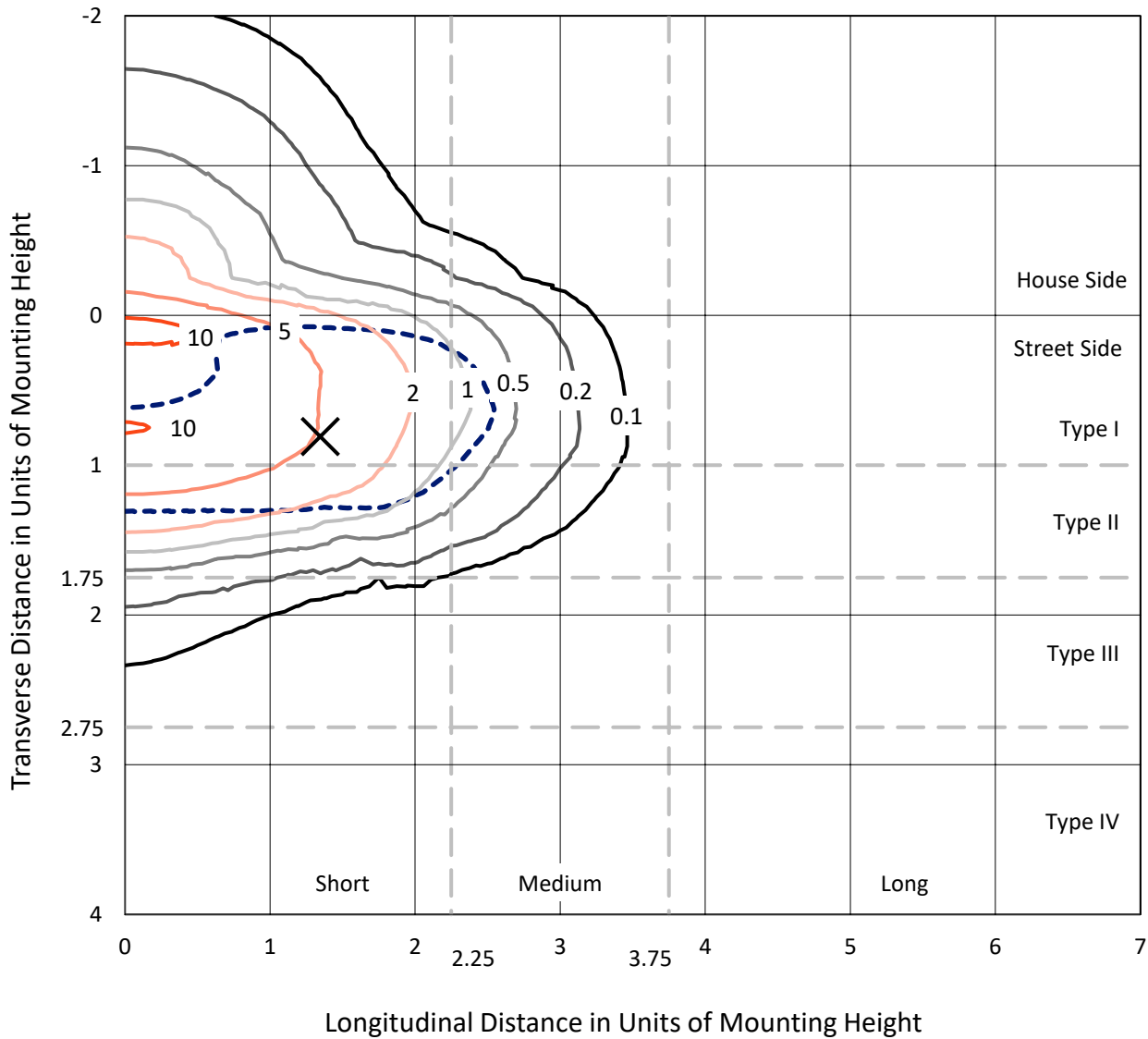
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638465
 CATALOG NUMBER: GWS-SA4E-830-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

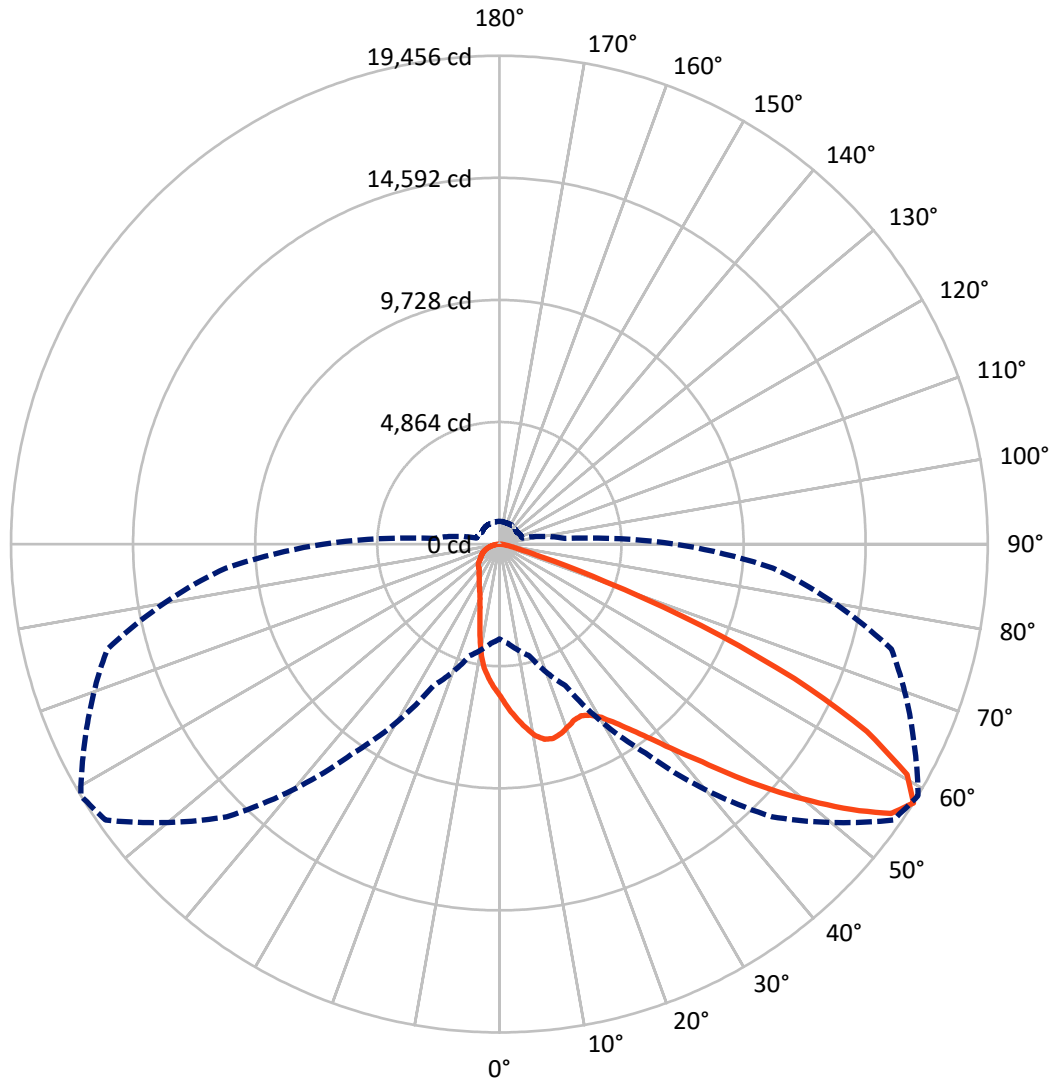
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

REPORT NUMBER: P638465
CATALOG NUMBER: GWS-SA4E-830-U-AFL-W

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P638465

CATALOG NUMBER: GWS-SA4E-830-U-AFL-W

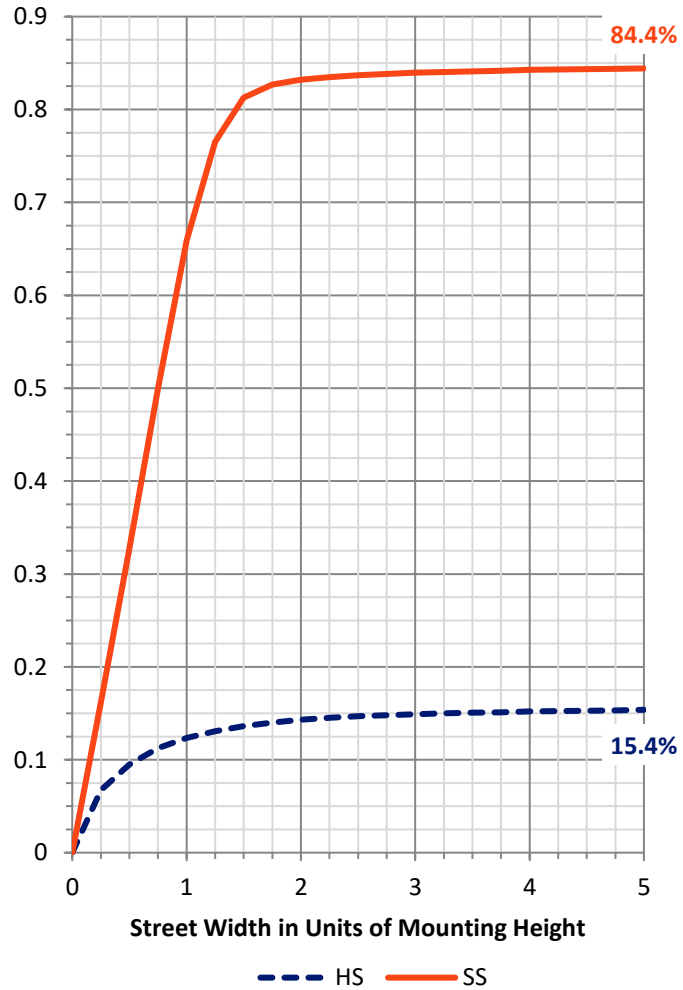
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3841.9	0.0	3841.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	20913.7	0.0	20913.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	24755.6	0.0	24755.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.3	2.3
10°-20°	1429.8	5.8
20°-30°	2317.8	9.4
30°-40°	3728.5	15.1
40°-50°	5789.9	23.4
50°-60°	6236.5	25.2
60°-70°	3619.4	14.6
70°-80°	944.9	3.8
80°-90°	124.5	0.5
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°	24755.6	100.0
0°-180°	24755.6	100.0

Coefficient of Utilization



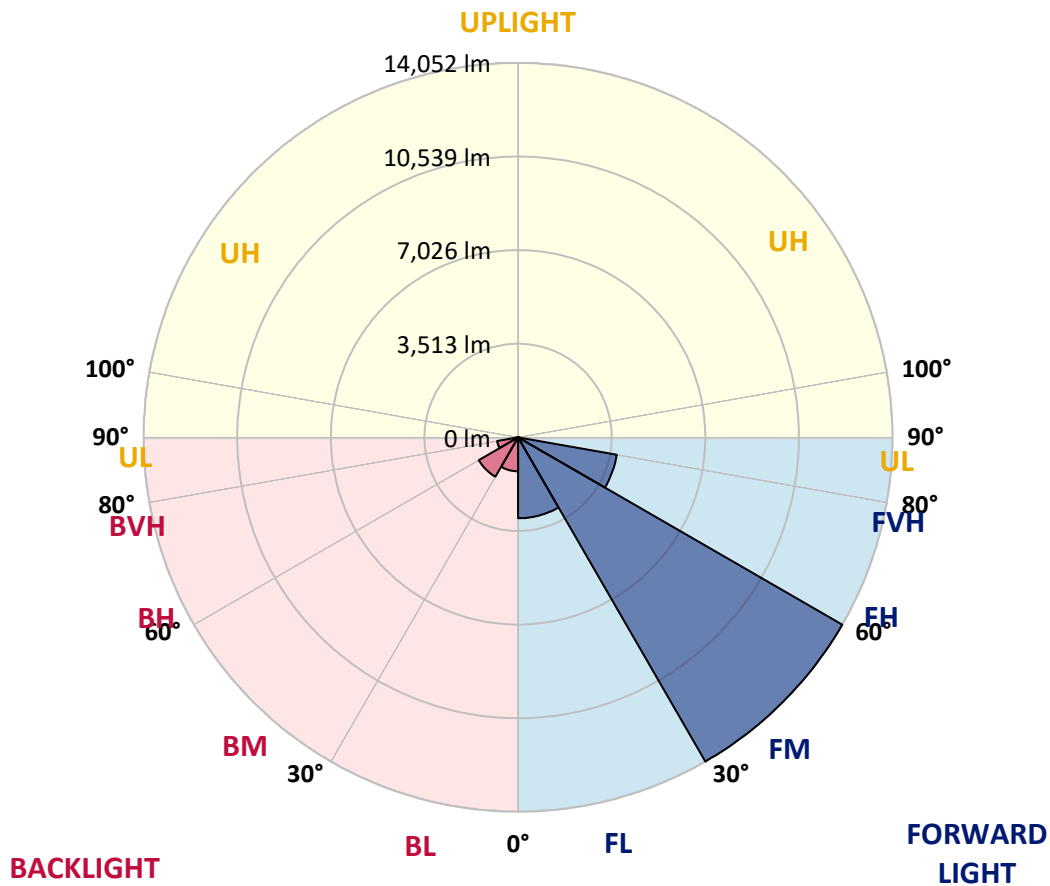
REPORT NUMBER: P638465

CATALOG NUMBER: GWS-SA4E-830-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3037.3	12.3			
FM (30°-60°)	14051.6	56.8			
FH (60°-80°)	3765.2	15.2			G2/5000
FVH (80°-90°)	59.6	0.2			G1/100
BL (0°-30°)	1274.6	5.1	B3/2500		
BM (30°-60°)	1703.4	6.9	B2/2500		
BH (60°-80°)	799.1	3.2	B2/1000		G2/1000
BVH (80°-90°)	64.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





REPORT NUMBER: P638465
 CATALOG NUMBER: GWS-SA4E-830-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6077.0	6077.0	6077.0	6077.0	6077.0	6077.0	6077.0	6077.0	6077.0	6077.0	6077.0
2.5°	6892.6	6835.1	6875.2	6803.7	6774.1	6695.7	6594.6	6526.6	6422.1	6286.1	6167.6
5°	7577.5	7537.4	7546.2	7469.5	7401.5	7270.8	7063.4	6948.4	6770.6	6497.0	6242.6
7.5°	7556.6	7603.7	7629.8	7696.0	7715.2	7703.0	7516.5	7356.2	7161.0	6749.7	6366.3
10°	6774.1	6863.0	6943.2	7169.7	7445.1	7793.6	7837.2	7741.3	7544.4	7072.1	6514.4
12.5°	5921.9	5989.9	6061.3	6333.2	6754.9	7452.0	7924.3	7983.6	7905.2	7391.0	6681.7
15°	5503.6	5535.0	5603.0	5782.5	6118.8	6892.6	7772.7	8032.4	8173.5	7729.1	6870.0
17.5°	5486.2	5500.2	5533.3	5629.1	5862.6	6460.4	7499.1	7934.8	8384.4	8086.4	7089.5
20°	5847.0	5810.4	5789.4	5787.7	5902.7	6315.8	7234.2	7777.9	8483.8	8452.4	7324.8
22.5°	6347.1	6359.3	6314.0	6202.5	6188.5	6418.6	7101.7	7619.3	8513.4	8776.5	7542.7
25°	7056.4	7117.4	6983.2	6770.6	6666.1	6716.6	7183.7	7570.6	8509.9	9046.7	7678.6
27.5°	7884.2	7931.3	7795.4	7516.5	7300.4	7178.4	7427.6	7715.2	8539.5	9280.2	7760.5
30°	8827.1	8842.8	8656.3	8363.5	8048.1	7786.7	7833.7	8013.2	8691.1	9586.9	7856.4
32.5°	9979.0	10045.3	9762.9	9299.4	8858.5	8523.8	8379.2	8494.2	9018.8	9949.4	8004.5
35°	11441.2	11463.9	11104.9	10440.9	9817.0	9353.4	9050.2	9111.2	9517.2	10456.6	8227.6
37.5°	12819.7	12842.4	12460.7	11843.8	10951.5	10317.1	9878.0	9850.1	10155.1	11172.8	8591.8
40°	13694.6	13759.1	13588.3	13201.4	12349.2	11493.5	10897.5	10801.6	10991.6	12049.4	9099.0
42.5°	14165.2	14193.0	14189.6	14240.1	13733.0	12882.5	12047.7	11856.0	11983.2	12995.8	9611.3
45°	14168.6	14238.4	14424.8	14911.1	14933.7	14403.9	13501.2	13201.4	13084.6	13949.1	10146.3
47.5°	13534.3	13609.2	14121.6	15078.4	15784.2	15904.4	15242.2	14640.9	14149.5	14769.9	10585.5
50°	11613.8	11802.0	12777.9	14470.1	15951.5	17106.9	16903.0	16087.4	15095.8	15404.3	10860.9
52.5°	9945.9	9939.0	10540.2	12751.8	15252.6	17636.7	18509.9	17575.7	16031.7	15806.8	10930.6
55°	7283.0	7323.1	7938.3	9752.5	13387.9	17124.4	19393.4	18945.5	17105.2	16021.2	10902.7
57.5°	3776.6	3975.2	4606.1	6223.4	10172.5	15360.7	19158.2	19456.2	18196.2	16172.8	10939.3
60°	1908.3	1870.0	2096.5	2971.4	5894.0	11997.2	17708.2	18658.0	18393.1	16291.3	10962.0
62.5°	1274.0	1263.5	1200.8	1376.8	2408.5	7105.2	15095.8	16427.3	17025.0	16012.5	10672.7
65°	1103.2	1082.3	967.2	960.3	1169.4	2947.0	11064.8	12913.9	14071.0	14773.4	9980.8
67.5°	993.4	962.0	845.2	787.7	840.0	1294.9	6235.6	8661.5	10390.3	12493.8	8464.6
70°	887.1	871.4	754.6	671.0	665.7	789.5	2297.0	4470.2	6357.6	8523.8	6188.5
72.5°	794.7	766.8	667.5	587.3	547.2	559.4	996.9	1721.8	3290.3	5317.2	3701.6
75°	688.4	667.5	580.3	500.2	451.4	409.5	608.2	796.4	1500.5	2527.0	1748.0
77.5°	531.5	517.6	458.3	397.3	369.5	305.0	369.5	501.9	693.6	1064.8	909.7
80°	308.5	317.2	341.6	310.2	271.9	217.8	240.5	289.3	416.5	576.9	515.9
82.5°	155.1	165.6	221.3	179.5	162.1	127.2	142.9	170.8	217.8	318.9	202.2
85°	12.2	12.2	40.1	45.3	55.8	45.3	57.5	69.7	99.3	127.2	68.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.2	8.7	15.7	29.6	19.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638465
 CATALOG NUMBER: GWS-SA4E-830-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6077.0	6077.0	6077.0	6077.0	6077.0	6077.0	6077.0	6077.0	6077.0	6077.0	6077.0
2.5°	6087.5	5998.6	5892.3	5805.1	5670.9	5599.5	5508.9	5397.3	5352.0	5331.1	5318.9
5°	6099.7	5942.8	5716.3	5507.1	5275.3	5092.3	4888.4	4675.8	4553.8	4524.2	4503.3
7.5°	6145.0	5925.4	5564.6	5219.6	4789.1	4390.0	4001.4	3616.2	3419.3	3344.4	3337.4
10°	6207.7	5918.4	5411.3	4837.9	4111.2	3480.3	3025.4	2723.9	2596.7	2554.9	2540.9
12.5°	6286.1	5913.2	5209.1	4308.1	3328.7	2732.6	2473.0	2424.2	2441.6	2438.1	2438.1
15°	6385.5	5920.2	4965.1	3708.6	2692.6	2371.9	2377.1	2434.6	2488.7	2497.4	2497.4
17.5°	6493.5	5913.2	4611.3	3107.3	2310.9	2286.5	2366.7	2446.8	2495.6	2502.6	2502.6
20°	6610.3	5880.1	4165.2	2540.9	2143.6	2232.5	2319.6	2382.4	2412.0	2419.0	2419.0
22.5°	6680.0	5786.0	3680.7	2150.6	2037.3	2147.1	2204.6	2269.1	2272.6	2216.8	2215.0
25°	6669.5	5609.9	3128.3	1899.6	1924.0	2019.9	2093.1	2047.7	1992.0	1960.6	1955.4
27.5°	6603.3	5345.0	2565.3	1709.6	1789.8	1897.9	1875.2	1836.9	1822.9	1788.1	1784.6
30°	6519.7	5019.1	2059.9	1561.5	1650.4	1749.7	1714.9	1711.4	1697.4	1659.1	1659.1
32.5°	6439.5	4682.8	1678.3	1451.7	1561.5	1568.5	1617.3	1620.8	1613.8	1547.6	1540.6
35°	6416.8	4346.4	1420.3	1364.6	1474.4	1470.9	1540.6	1538.9	1418.6	1326.2	1324.5
37.5°	6484.8	4004.9	1267.0	1293.1	1354.1	1399.4	1455.2	1354.1	1314.0	1258.3	1254.8
40°	6629.5	3689.4	1188.6	1251.3	1277.4	1343.7	1256.5	1263.5	1253.0	1211.2	1206.0
42.5°	6821.2	3421.0	1145.0	1237.4	1233.9	1251.3	1155.5	1183.3	1199.0	1167.6	1162.4
45°	7005.9	3187.5	1122.3	1185.1	1202.5	1101.4	1082.3	1108.4	1132.8	1120.6	1115.4
47.5°	7141.8	2985.3	1110.1	1113.6	1162.4	1050.9	1019.5	1031.7	1061.3	1066.6	1064.8
50°	7183.7	2812.8	1096.2	1054.4	1043.9	1000.3	975.9	972.5	1007.3	1031.7	1035.2
52.5°	7103.5	2659.5	1059.6	1002.1	951.5	958.5	949.8	932.4	967.2	1000.3	1003.8
55°	6985.0	2572.3	1002.1	951.5	892.3	920.2	923.7	908.0	930.6	953.3	953.3
57.5°	6993.7	2622.9	946.3	904.5	840.0	876.6	895.8	888.8	888.8	906.2	908.0
60°	7051.2	2696.1	909.7	845.2	787.7	826.1	869.6	862.7	847.0	869.6	869.6
62.5°	6885.6	2598.5	885.3	787.7	732.0	777.3	829.6	826.1	808.6	845.2	848.7
65°	6397.7	2337.0	857.4	716.3	676.2	728.5	773.8	786.0	770.3	819.1	827.8
67.5°	5362.5	1965.8	803.4	648.3	620.4	669.2	712.8	730.2	718.0	775.5	782.5
70°	3997.9	1591.1	718.0	573.4	552.5	596.0	636.1	643.1	644.8	712.8	719.8
72.5°	2549.7	1237.4	604.7	489.7	474.0	507.1	536.8	564.7	576.9	641.3	639.6
75°	1422.1	920.2	486.2	414.8	386.9	413.0	447.9	481.0	515.9	610.0	620.4
77.5°	819.1	646.6	385.2	332.9	299.8	327.6	357.3	404.3	508.9	590.8	580.3
80°	461.8	420.0	291.0	244.0	223.1	244.0	266.6	355.5	400.8	435.7	440.9
82.5°	216.1	235.3	198.7	149.9	149.9	163.8	184.7	275.4	303.2	247.5	216.1
85°	78.4	106.3	97.6	76.7	68.0	66.2	115.0	156.8	97.6	87.1	74.9
87.5°	20.9	29.6	27.9	19.2	10.5	8.7	0.0	0.0	0.0	0.0	0.0
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)