

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: P640530

Luminaire Tested: GWS-SA5E-722-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-722-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28196.4 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

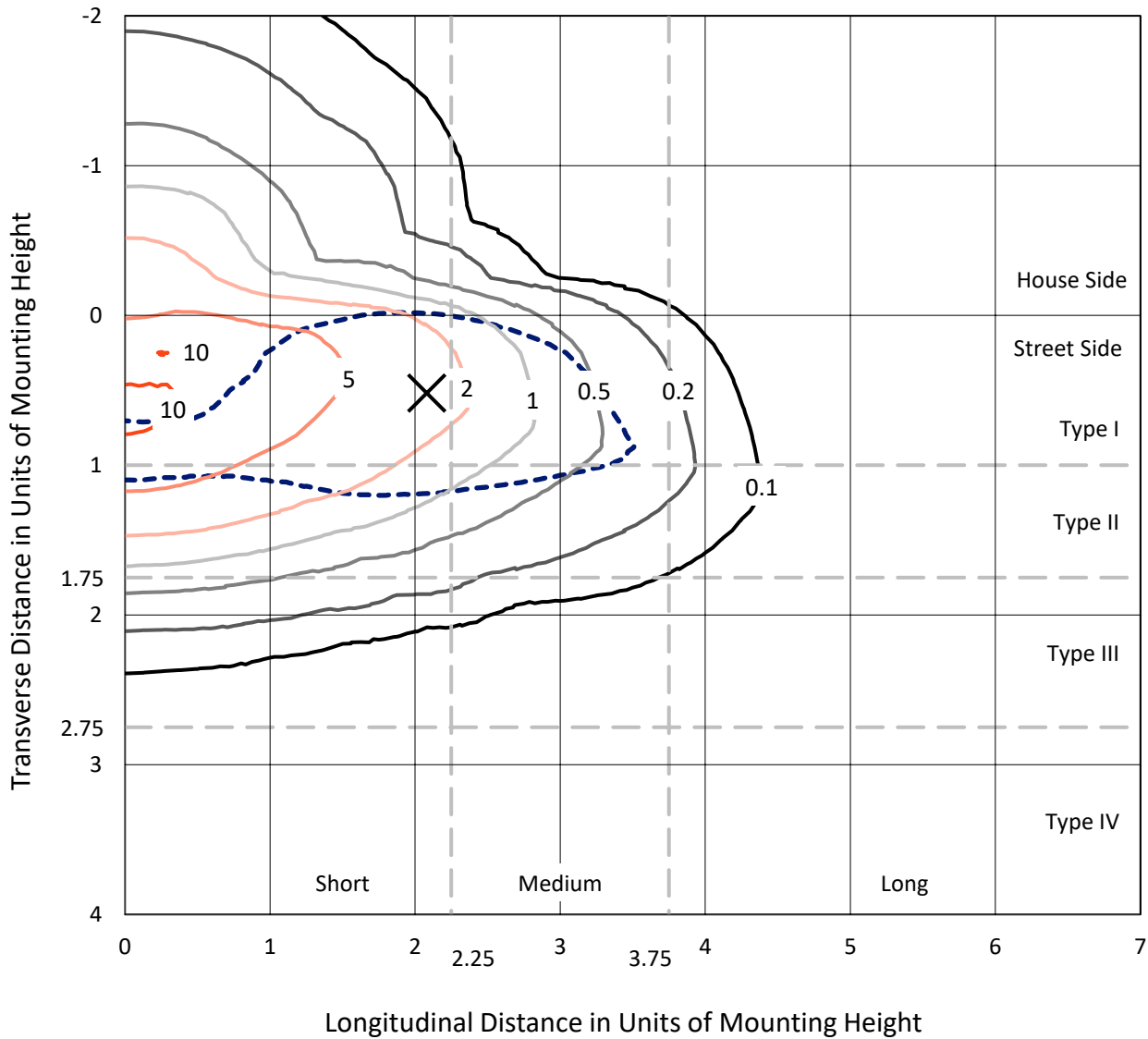
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640530
 CATALOG NUMBER: GWS-SA5E-722-U-T2R-W

Iso-Footcandle Lines of Horizontal Illumination

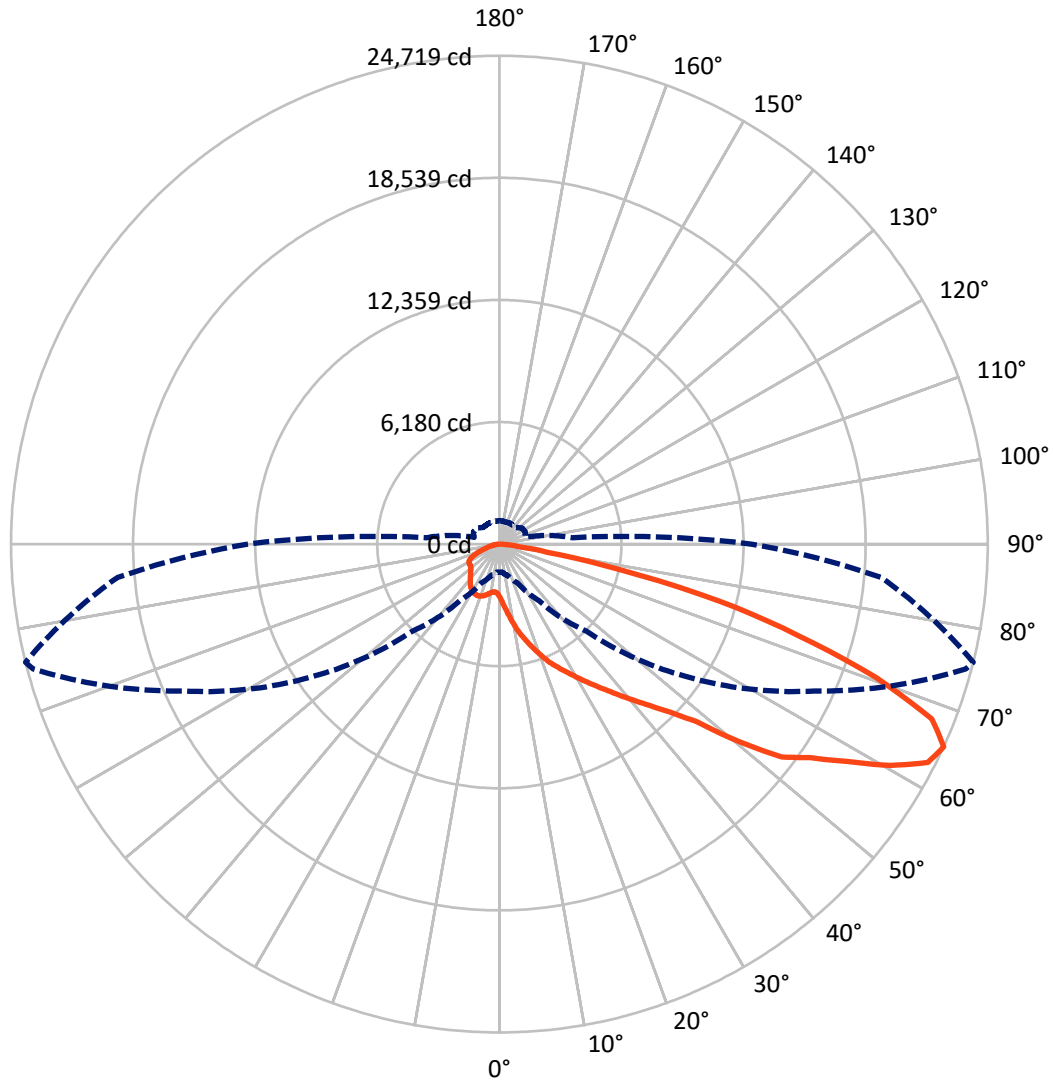
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

REPORT NUMBER: P640530
CATALOG NUMBER: GWS-SA5E-722-U-T2R-W

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P640530

CATALOG NUMBER: GWS-SA5E-722-U-T2R-W

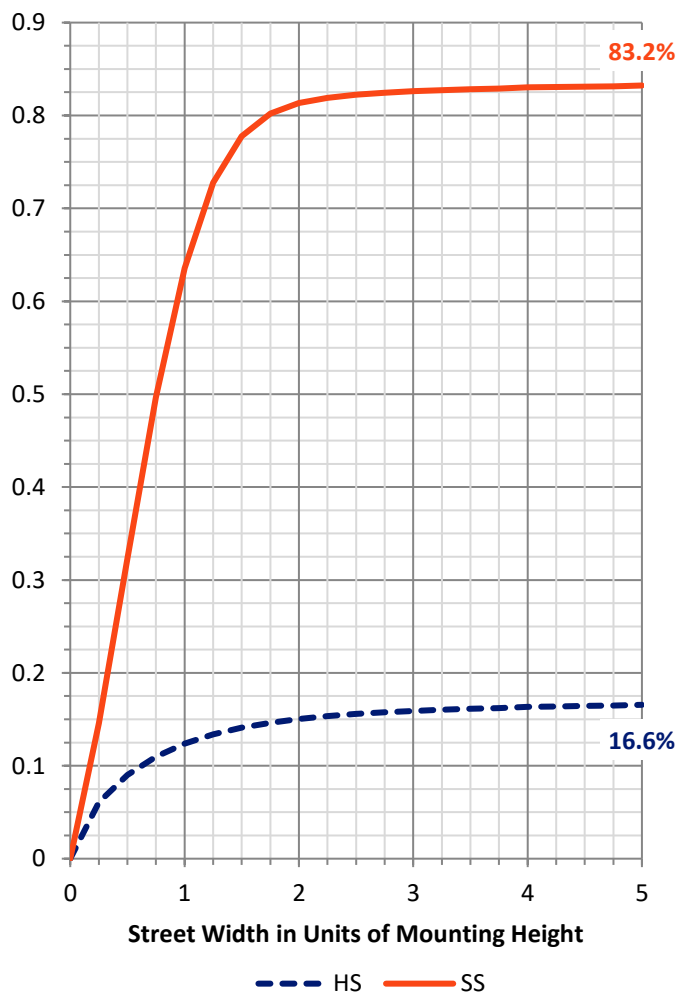
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4713.1	0.0	4713.1
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	23483.3	0.0	23483.3
	% Fixture	83.3	0.0	83.3
Total	Lumens	28196.4	0.0	28196.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.2	1.1
10°-20°	1208.3	4.3
20°-30°	2354.7	8.4
30°-40°	3938.2	14.0
40°-50°	5638.7	20.0
50°-60°	6675.4	23.7
60°-70°	5550.6	19.7
70°-80°	2271.5	8.1
80°-90°	241.8	0.9
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°	28196.4	100.0
0°-180°	28196.4	100.0

Coefficient of Utilization



REPORT NUMBER: P640530

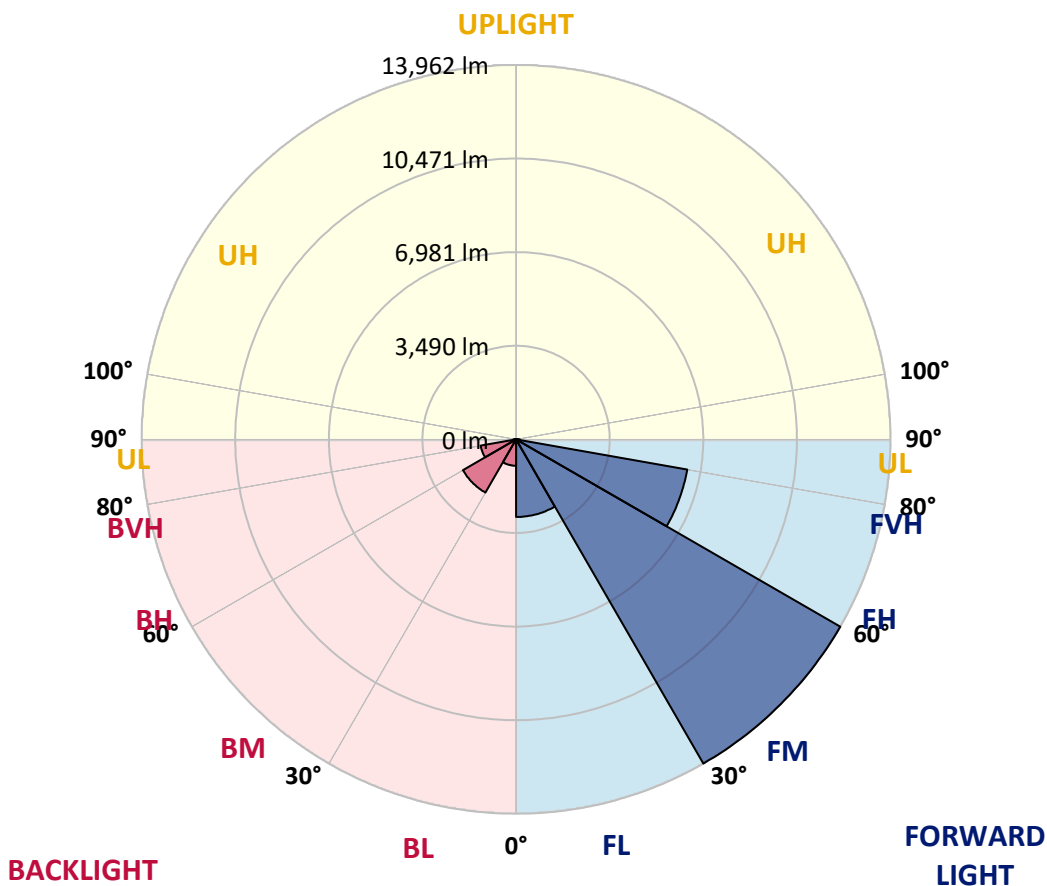
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2894.3	10.3			
FM (30°-60°)	13961.8	49.5			
FH (60°-80°)	6483.1	23.0			G3/7500
FVH (80°-90°)	144.2	0.5			G2/225
BL (0°-30°)	986.0	3.5	B2/1000		
BM (30°-60°)	2290.4	8.1	B2/2500		
BH (60°-80°)	1339.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	97.6	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-G3

Type II Short





REPORT NUMBER: P640530
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1
2.5°	3742.5	3756.4	3710.8	3694.9	3587.9	3443.2	3322.3	3139.9	2971.4	2945.6	2795.0
5°	4753.4	4694.0	4642.4	4608.7	4460.1	4295.5	4039.8	3696.9	3338.1	3294.5	2969.4
7.5°	5354.1	5344.2	5280.7	5260.9	5145.9	4981.4	4717.8	4291.6	3770.2	3698.9	3205.3
10°	5835.8	5829.8	5798.1	5815.9	5710.9	5550.3	5294.6	4854.5	4244.0	4172.6	3468.9
12.5°	6256.0	6265.9	6260.0	6325.4	6271.8	6147.0	5881.3	5397.7	4717.8	4640.5	3790.1
15°	6563.2	6571.2	6600.9	6743.6	6773.4	6747.6	6478.0	5930.9	5185.6	5074.6	4121.1
17.5°	6650.5	6666.3	6737.7	6967.6	7128.2	7235.2	7035.0	6474.0	5645.5	5524.5	4458.1
20°	6767.4	6785.3	6856.6	7096.5	7332.4	7576.2	7540.5	7025.1	6109.3	6010.2	4799.0
22.5°	7308.6	7294.7	7263.0	7377.9	7546.4	7849.7	7938.9	7554.4	6589.0	6493.9	5175.7
25°	8351.2	8325.5	8123.3	8018.2	7962.7	8147.1	8305.6	8036.1	7056.8	6914.1	5526.5
27.5°	9500.9	9487.1	9229.4	8979.6	8638.7	8559.4	8652.5	8456.3	7510.8	7366.1	5831.8
30°	10589.2	10547.6	10278.0	9964.8	9508.9	9167.9	9031.1	8868.6	8008.3	7857.7	6188.6
32.5°	11562.5	11509.0	11191.8	10844.9	10367.2	9964.8	9556.4	9306.7	8571.3	8396.8	6553.3
35°	12361.3	12307.8	11982.7	11614.0	11088.7	10791.4	10232.4	9782.4	9144.1	8967.7	6983.5
37.5°	12979.8	12930.2	12591.3	12228.5	11770.6	11534.7	11049.1	10317.6	9804.2	9619.9	7439.4
40°	13326.7	13291.0	13019.4	12732.0	12347.5	12143.3	11925.2	10993.6	10543.6	10359.3	7976.6
42.5°	13431.7	13408.0	13217.7	13069.0	12809.3	12654.7	12779.6	11788.5	11332.5	11172.0	8581.2
45°	13168.1	13168.1	13112.6	13187.9	13199.8	13197.8	13635.9	12686.4	12301.9	12125.4	9433.5
47.5°	12494.1	12537.8	12619.0	12989.7	13380.2	13707.3	14637.0	13883.7	13548.7	13404.0	10640.7
50°	11261.2	11380.1	11657.6	12381.2	13211.7	14044.3	15584.5	15653.9	15973.0	15717.3	12416.8
52.5°	9455.3	9437.5	10145.2	11175.9	12442.6	14058.1	16105.8	17215.9	18074.2	17897.8	13737.0
55°	7514.7	7485.0	8145.1	9566.4	11263.2	13526.9	16419.0	17931.5	19239.7	19081.2	14924.4
57.5°	5754.5	5716.8	6303.6	7586.1	9598.1	12399.0	16359.5	18783.8	20843.4	20762.1	16537.9
60°	3960.5	3914.9	4464.0	5586.0	7627.7	10674.4	15701.4	19221.9	22720.6	22748.3	18264.5
62.5°	2378.7	2352.9	2751.4	3621.6	5486.9	8537.6	14161.2	18956.3	24215.2	24340.1	19374.5
65°	1435.2	1417.3	1651.2	2160.7	3480.8	6230.2	11786.5	17598.4	24431.3	24718.7	19400.3
67.5°	1044.6	1046.6	1114.0	1316.2	2029.8	4024.0	8844.8	15164.2	23305.3	23602.7	18177.3
70°	907.9	911.8	947.5	993.1	1227.0	2303.4	5750.5	11970.8	19977.1	20207.1	15245.5
72.5°	806.8	806.8	830.6	854.4	959.4	1403.4	3080.4	8367.1	15766.8	15828.3	11635.8
75°	709.6	703.7	715.6	727.5	832.5	981.2	1498.6	5829.8	11645.7	11503.0	7520.7
77.5°	564.9	559.0	561.0	572.9	668.0	701.7	759.2	3641.4	6563.2	6194.5	3322.3
80°	402.4	398.4	420.2	450.0	493.6	430.1	475.7	1762.2	2602.7	2422.3	1288.5
82.5°	239.9	247.8	281.5	305.3	340.9	269.6	307.2	588.7	921.7	898.0	523.3
85°	33.7	35.7	101.1	117.0	146.7	105.1	162.5	265.6	368.7	394.5	184.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	13.9	47.6	105.1	107.0	45.6
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: P640530
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1
2.5°	2717.7	2624.5	2491.7	2380.7	2287.5	2212.2	2148.8	2101.2	2087.3	2067.5	2067.5
5°	2816.8	2648.3	2410.4	2241.9	2144.8	2087.3	2047.7	2027.8	2017.9	2006.0	2000.1
7.5°	2953.6	2717.7	2396.5	2226.1	2150.7	2115.1	2089.3	2077.4	2069.5	2057.6	2057.6
10°	3141.9	2820.7	2440.2	2281.6	2222.1	2186.4	2156.7	2136.9	2119.0	2101.2	2097.2
12.5°	3346.0	2955.5	2519.4	2356.9	2293.5	2249.9	2208.2	2178.5	2156.7	2134.9	2128.9
15°	3572.0	3094.3	2604.7	2430.2	2351.0	2291.5	2241.9	2196.3	2166.6	2134.9	2130.9
17.5°	3794.0	3235.0	2676.0	2479.8	2378.7	2305.4	2234.0	2174.5	2136.9	2101.2	2091.3
20°	4059.7	3375.8	2725.6	2493.7	2372.8	2275.6	2190.4	2115.1	2073.4	2031.8	2025.9
22.5°	4303.5	3506.6	2749.4	2473.9	2327.2	2212.2	2113.1	2031.8	1986.2	1944.6	1936.7
25°	4539.4	3621.6	2739.5	2426.3	2257.8	2125.0	2021.9	1940.6	1897.0	1853.4	1841.5
27.5°	4767.3	3698.9	2699.8	2352.9	2170.6	2027.8	1928.7	1855.4	1817.7	1780.1	1764.2
30°	4991.3	3770.2	2638.4	2257.8	2059.6	1926.7	1845.5	1793.9	1756.3	1716.6	1704.7
32.5°	5217.3	3821.8	2545.2	2146.8	1946.6	1837.5	1788.0	1750.3	1710.7	1671.0	1659.1
35°	5445.2	3843.6	2432.2	2019.9	1851.4	1780.1	1762.2	1718.6	1665.1	1617.5	1601.7
37.5°	5716.8	3863.4	2291.5	1895.0	1768.2	1752.3	1748.3	1682.9	1619.5	1554.1	1536.2
40°	6043.9	3889.2	2146.8	1782.0	1700.8	1742.4	1726.5	1637.3	1510.5	1447.0	1427.2
42.5°	6444.3	3936.8	1996.1	1679.0	1651.2	1704.7	1686.9	1526.3	1441.1	1405.4	1395.5
45°	7033.0	4111.2	1845.5	1597.7	1613.6	1651.2	1623.5	1460.9	1427.2	1403.4	1391.5
47.5°	8081.6	4378.8	1714.6	1536.2	1583.8	1603.6	1496.6	1443.1	1417.3	1385.6	1371.7
50°	9171.9	4495.7	1609.6	1498.6	1550.1	1560.0	1427.2	1419.3	1401.5	1367.8	1353.9
52.5°	9909.3	4479.9	1546.2	1484.7	1522.4	1484.7	1395.5	1393.5	1381.6	1342.0	1326.1
55°	10741.8	4507.6	1518.4	1488.7	1510.5	1357.8	1355.9	1361.8	1355.9	1312.3	1304.3
57.5°	11865.8	4592.9	1504.5	1502.5	1502.5	1296.4	1318.2	1326.1	1314.2	1294.4	1288.5
60°	12946.1	4598.8	1478.8	1518.4	1496.6	1258.7	1274.6	1282.5	1268.6	1264.7	1262.7
62.5°	13352.5	4313.4	1421.3	1506.5	1472.8	1217.1	1229.0	1233.0	1219.1	1229.0	1227.0
65°	12747.9	3706.8	1326.1	1449.0	1399.5	1179.4	1171.5	1181.4	1157.6	1183.4	1185.4
67.5°	11318.7	2945.6	1181.4	1340.0	1296.4	1137.8	1122.0	1122.0	1082.3	1122.0	1120.0
70°	9126.3	2081.4	969.3	1165.6	1183.4	1088.3	1080.3	1034.7	971.3	1030.8	1024.8
72.5°	6918.1	1494.6	763.2	921.7	1018.9	1018.9	1020.9	943.6	870.2	898.0	874.2
75°	4382.8	1052.6	610.5	705.7	798.8	894.0	939.6	796.9	731.5	719.6	707.7
77.5°	1974.3	691.8	475.7	541.2	566.9	705.7	858.3	685.9	596.7	570.9	563.0
80°	826.6	430.1	339.0	382.6	348.9	592.7	757.2	533.2	438.1	402.4	376.6
82.5°	362.8	255.7	216.1	206.2	218.0	440.1	564.9	354.8	273.6	370.7	374.6
85°	152.6	134.8	111.0	101.1	89.2	168.5	265.6	138.8	170.5	97.1	79.3
87.5°	35.7	39.6	29.7	19.8	11.9	2.0	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)