

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: P640970

Luminaire Tested: GWS-SA5E-830-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640970
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-830-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30408.7 lumens
Efficiency: N/A
Efficacy: 112.8 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

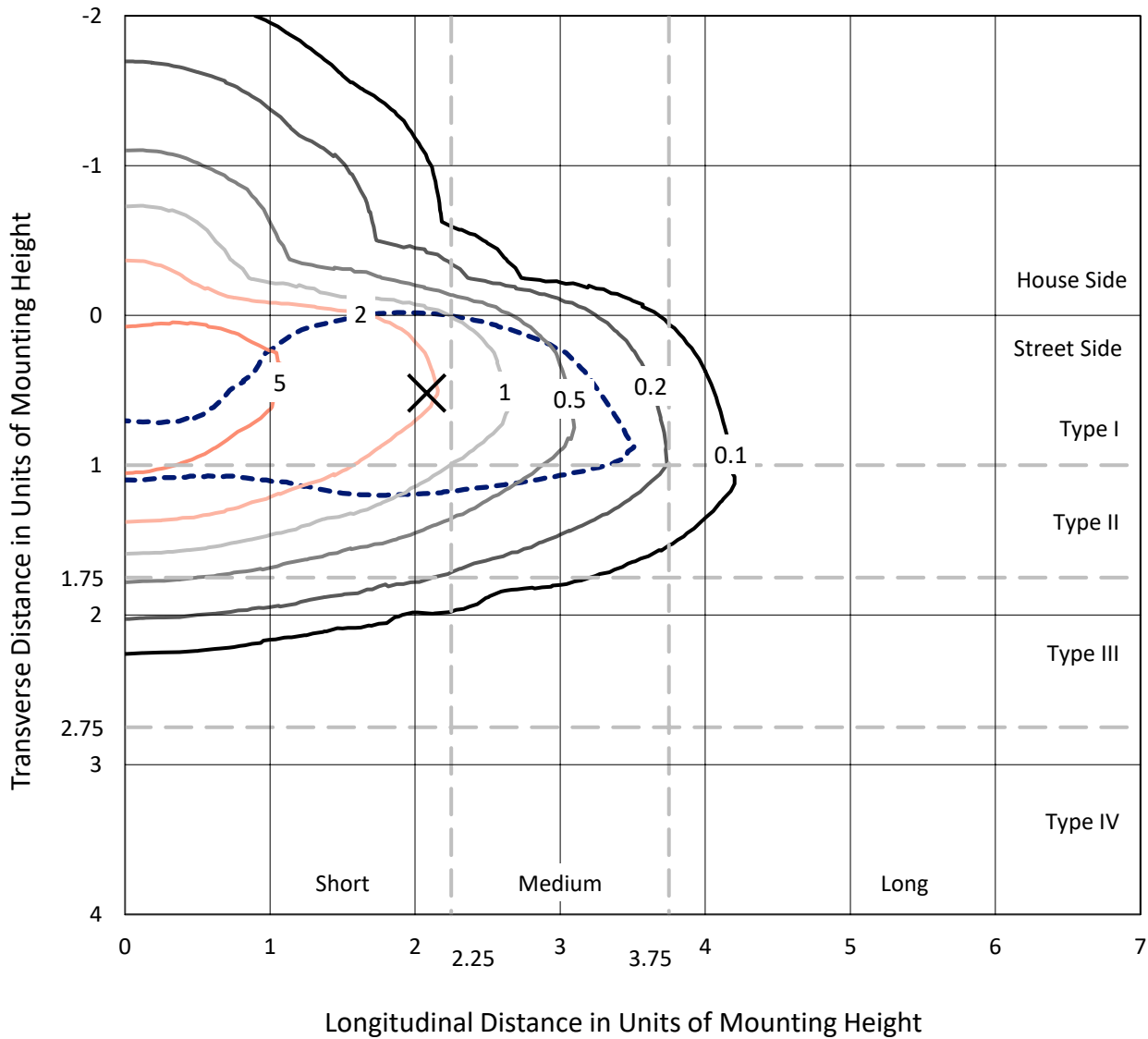


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Iso-Footcandle Lines of Horizontal Illumination

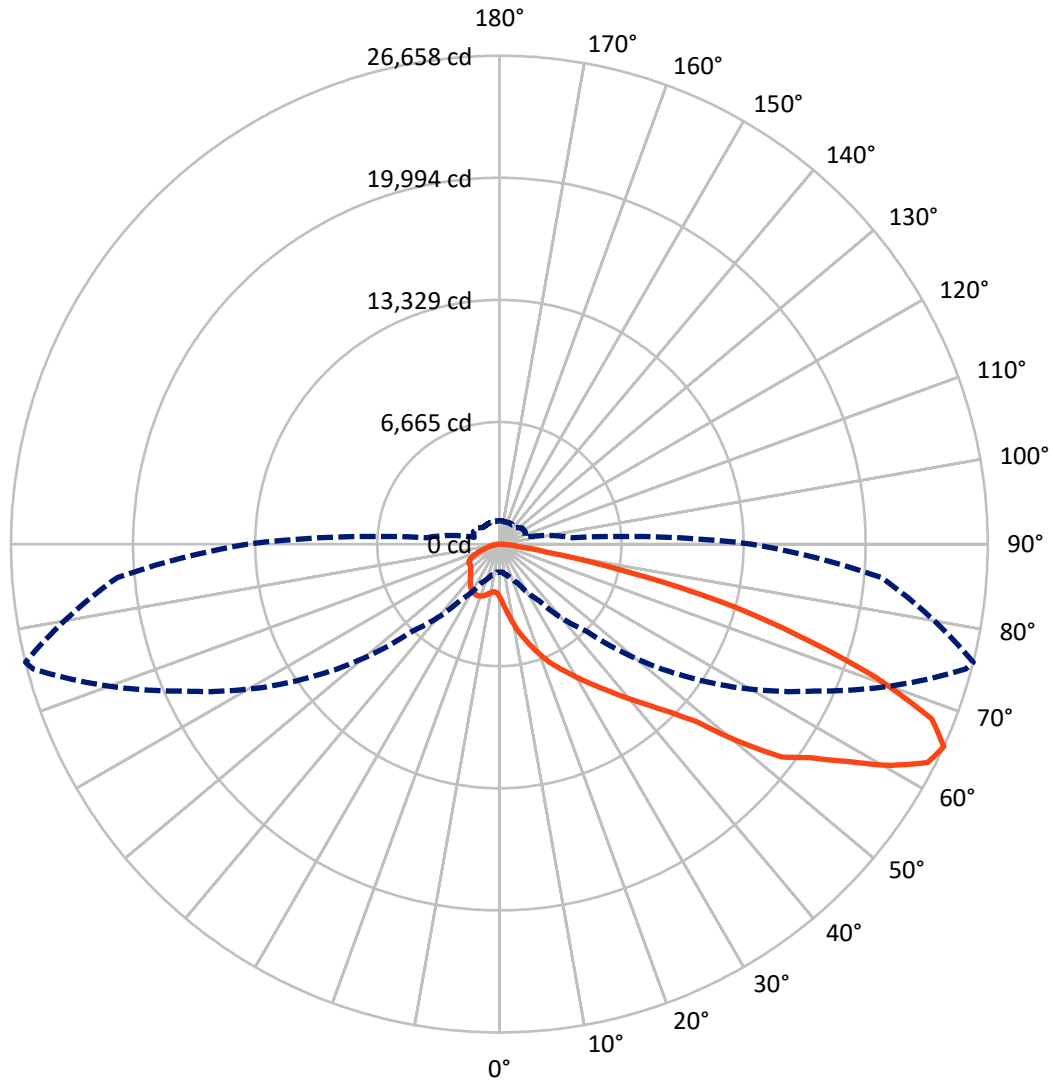
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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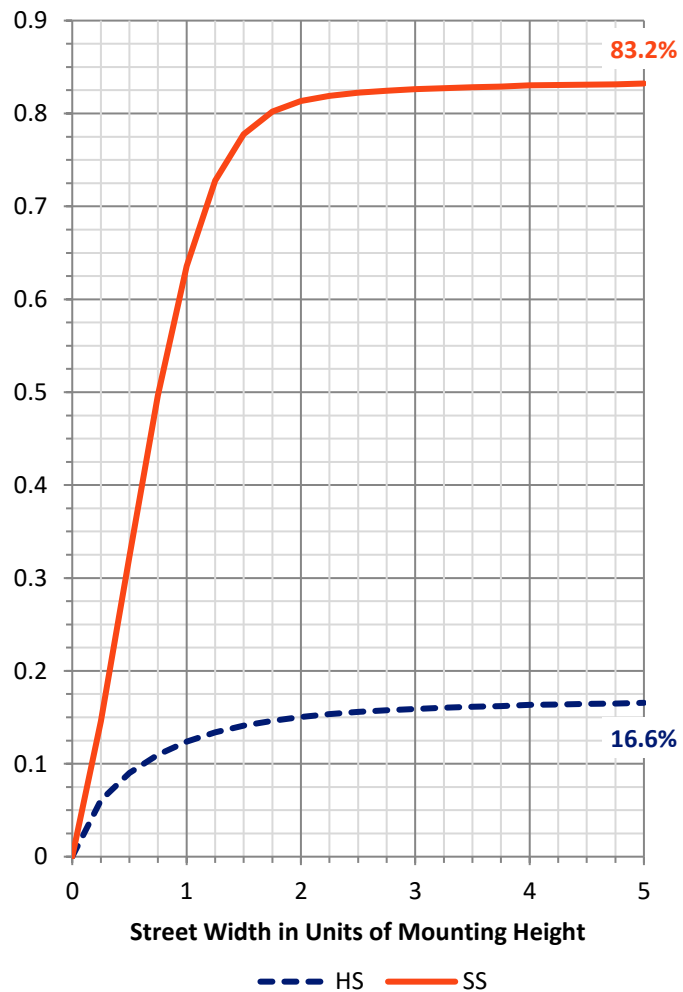
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5082.8	0.0	5082.8
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	25325.9	0.0	25325.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	30408.7	0.0	30408.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.1	1.1
10°-20°	1303.1	4.3
20°-30°	2539.5	8.4
30°-40°	4247.1	14.0
40°-50°	6081.1	20.0
50°-60°	7199.2	23.7
60°-70°	5986.1	19.7
70°-80°	2449.7	8.1
80°-90°	260.8	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°	30408.7	100.0
0°-180°	30408.7	100.0

Coefficient of Utilization



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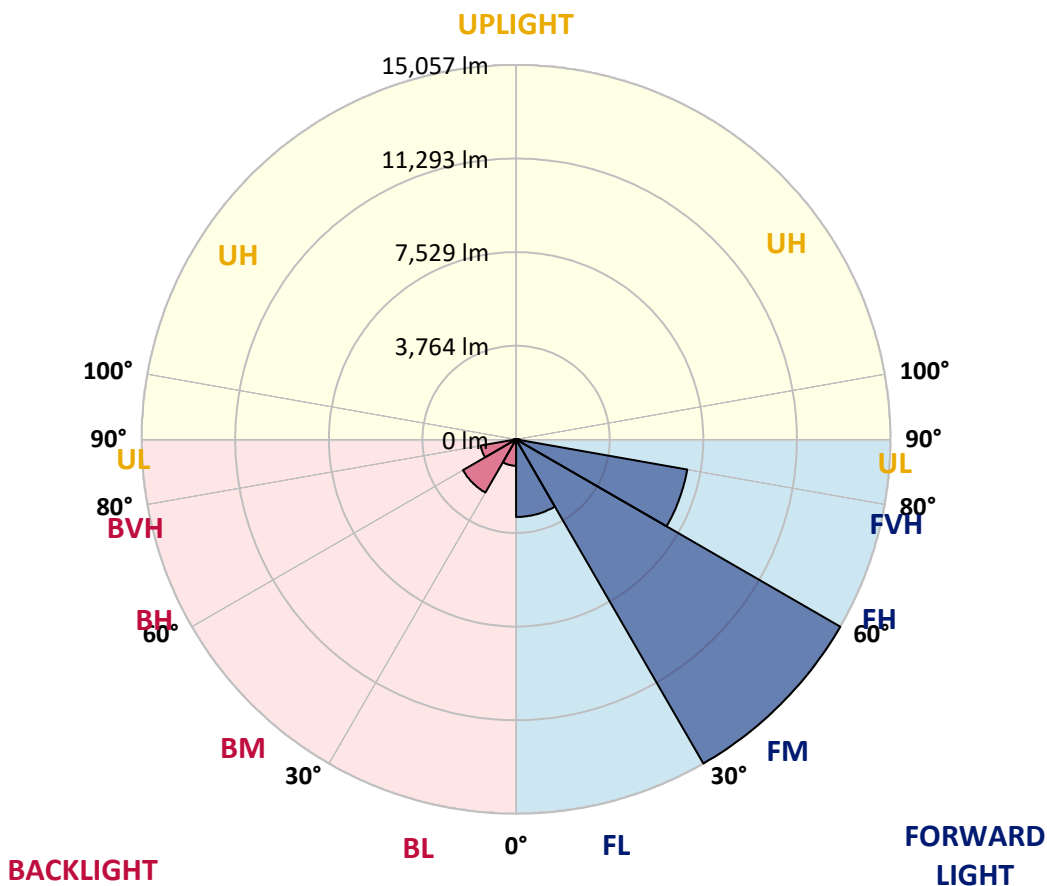
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3121.3	10.3			
FM (30°-60°)	15057.2	49.5			
FH (60°-80°)	6991.7	23.0			G3/7500
FVH (80°-90°)	155.5	0.5			G2/225
BL (0°-30°)	1063.3	3.5	B3/2500		
BM (30°-60°)	2470.2	8.1	B2/2500		
BH (60°-80°)	1444.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	105.3	0.3			G2/225
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6
2.5°	4036.1	4051.1	4001.9	3984.8	3869.4	3713.3	3582.9	3386.2	3204.5	3176.7	3014.3
5°	5126.4	5062.3	5006.7	4970.3	4810.0	4632.6	4356.8	3987.0	3600.0	3553.0	3202.4
7.5°	5774.1	5763.5	5695.0	5673.7	5549.7	5372.2	5087.9	4628.3	4066.1	3989.1	3456.8
10°	6293.6	6287.2	6253.0	6272.3	6158.9	5985.8	5710.0	5235.4	4577.0	4500.0	3741.1
12.5°	6746.8	6757.5	6751.1	6821.7	6763.9	6629.3	6342.8	5821.2	5087.9	5004.5	4087.4
15°	7078.2	7086.7	7118.8	7272.7	7304.8	7277.0	6986.3	6396.2	5592.4	5472.7	4444.4
17.5°	7172.3	7189.4	7266.3	7514.3	7687.5	7802.9	7587.0	6982.0	6088.4	5958.0	4807.9
20°	7298.4	7317.6	7394.6	7653.3	7907.7	8170.6	8132.1	7576.3	6588.6	6481.8	5175.6
22.5°	7882.0	7867.0	7832.8	7956.8	8138.5	8465.6	8561.8	8147.1	7106.0	7003.4	5581.7
25°	9006.5	8978.7	8760.6	8647.3	8587.5	8786.3	8957.3	8666.6	7610.5	7456.6	5960.1
27.5°	10246.4	10231.4	9953.5	9684.1	9316.5	9230.9	9331.4	9119.8	8100.1	7944.0	6289.4
30°	11420.0	11375.1	11084.4	10746.6	10254.9	9887.2	9739.7	9564.4	8636.6	8474.2	6674.2
32.5°	12469.7	12412.0	12069.9	11695.8	11180.6	10746.6	10306.2	10036.9	9243.8	9055.6	7067.5
35°	13331.2	13273.5	12922.9	12525.3	11958.7	11638.1	11035.2	10550.0	9861.6	9671.3	7531.4
37.5°	13998.2	13944.7	13579.2	13188.0	12694.1	12439.7	11916.0	11127.2	10573.5	10374.7	8023.1
40°	14372.3	14333.8	14040.9	13731.0	13316.2	13096.0	12860.9	11856.1	11370.9	11172.0	8602.4
42.5°	14485.6	14460.0	14254.7	14094.4	13814.3	13647.6	13782.3	12713.4	12221.7	12048.5	9254.5
45°	14201.3	14201.3	14141.4	14222.7	14235.5	14233.3	14705.8	13681.8	13267.1	13076.8	10173.7
47.5°	13474.4	13521.5	13609.1	14008.9	14430.0	14782.8	15785.4	14973.0	14611.7	14455.7	11475.6
50°	12144.7	12273.0	12572.3	13352.6	14248.3	15146.2	16807.2	16882.1	17226.2	16950.5	13391.1
52.5°	10197.2	10178.0	10941.2	12052.8	13418.9	15161.1	17369.5	18566.6	19492.3	19302.0	14814.8
55°	8104.3	8072.3	8784.1	10316.9	12146.9	14588.2	17707.2	19338.4	20749.3	20578.3	16095.4
57.5°	6206.0	6165.4	6798.1	8181.3	10351.1	13371.8	17643.1	20257.6	22478.8	22391.1	17835.5
60°	4271.3	4222.1	4814.3	6024.3	8226.2	11512.0	16933.4	20730.1	24503.2	24533.2	19697.5
62.5°	2565.3	2537.5	2967.2	3905.7	5917.4	9207.4	15272.3	20443.6	26115.1	26249.8	20894.7
65°	1547.8	1528.5	1780.8	2330.2	3753.9	6719.0	12711.2	18979.2	26348.2	26658.1	20922.5
67.5°	1126.6	1128.7	1201.4	1419.5	2189.1	4339.7	9538.8	16354.0	25133.9	25454.6	19603.5
70°	979.1	983.4	1021.9	1071.0	1323.3	2484.1	6201.7	12910.1	21544.6	21792.5	16441.7
72.5°	870.1	870.1	895.7	921.4	1034.7	1513.5	3322.1	9023.6	17003.9	17070.2	12548.8
75°	765.3	758.9	771.7	784.6	897.9	1058.2	1616.2	6287.2	12559.5	12405.5	8110.7
77.5°	609.3	602.9	605.0	617.8	720.4	756.8	818.8	3927.1	7078.2	6680.6	3582.9
80°	434.0	429.7	453.2	485.3	532.3	463.9	513.1	1900.5	2806.9	2612.4	1389.6
82.5°	258.7	267.2	303.6	329.2	367.7	290.7	331.4	634.9	994.1	968.4	564.4
85°	36.3	38.5	109.0	126.1	158.2	113.3	175.3	286.5	397.6	425.4	198.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	15.0	51.3	113.3	115.4	49.2
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°	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6
2.5°	2930.9	2830.4	2687.2	2567.5	2467.0	2385.8	2317.4	2266.0	2251.1	2229.7	2229.7
5°	3037.8	2856.1	2599.5	2417.8	2313.1	2251.1	2208.3	2187.0	2176.3	2163.4	2157.0
7.5°	3185.3	2930.9	2584.6	2400.7	2319.5	2281.0	2253.2	2240.4	2231.8	2219.0	2219.0
10°	3388.4	3042.1	2631.6	2460.6	2396.5	2358.0	2325.9	2304.5	2285.3	2266.0	2261.8
12.5°	3608.6	3187.4	2717.1	2541.8	2473.4	2426.4	2381.5	2349.4	2325.9	2302.4	2296.0
15°	3852.3	3337.1	2809.0	2620.9	2535.4	2471.3	2417.8	2368.7	2336.6	2302.4	2298.1
17.5°	4091.7	3488.9	2886.0	2674.4	2565.3	2486.2	2409.3	2345.1	2304.5	2266.0	2255.4
20°	4378.2	3640.6	2939.4	2689.3	2558.9	2454.2	2362.2	2281.0	2236.1	2191.2	2184.8
22.5°	4641.1	3781.7	2965.1	2668.0	2509.8	2385.8	2278.9	2191.2	2142.1	2097.2	2088.6
25°	4895.5	3905.7	2954.4	2616.6	2434.9	2291.7	2180.5	2092.9	2045.9	1998.8	1986.0
27.5°	5141.4	3989.1	2911.7	2537.5	2340.9	2187.0	2080.1	2001.0	1960.3	1919.7	1902.6
30°	5382.9	4066.1	2845.4	2434.9	2221.2	2077.9	1990.3	1934.7	1894.1	1851.3	1838.5
32.5°	5626.6	4121.6	2744.9	2315.2	2099.3	1981.7	1928.3	1887.7	1844.9	1802.1	1789.3
35°	5872.5	4145.2	2623.1	2178.4	1996.7	1919.7	1900.5	1853.5	1795.7	1744.4	1727.3
37.5°	6165.4	4166.5	2471.3	2043.7	1906.9	1889.8	1885.5	1815.0	1746.6	1676.0	1656.8
40°	6518.1	4194.3	2315.2	1921.9	1834.2	1879.1	1862.0	1765.8	1629.0	1560.6	1539.2
42.5°	6949.9	4245.6	2152.7	1810.7	1780.8	1838.5	1819.3	1646.1	1554.2	1515.7	1505.0
45°	7584.8	4433.8	1990.3	1723.1	1740.2	1780.8	1750.8	1575.5	1539.2	1513.5	1500.7
47.5°	8715.7	4722.4	1849.2	1656.8	1708.1	1729.5	1614.0	1556.3	1528.5	1494.3	1479.3
50°	9891.5	4848.5	1735.9	1616.2	1671.7	1682.4	1539.2	1530.7	1511.4	1475.1	1460.1
52.5°	10686.8	4831.4	1667.5	1601.2	1641.8	1601.2	1505.0	1502.9	1490.0	1447.3	1430.2
55°	11584.6	4861.3	1637.5	1605.5	1629.0	1464.4	1462.2	1468.7	1462.2	1415.2	1406.7
57.5°	12796.8	4953.2	1622.6	1620.4	1620.4	1398.1	1421.6	1430.2	1417.3	1396.0	1389.6
60°	13961.9	4959.7	1594.8	1637.5	1614.0	1357.5	1374.6	1383.1	1368.2	1363.9	1361.8
62.5°	14400.1	4651.8	1532.8	1624.7	1588.4	1312.6	1325.4	1329.7	1314.7	1325.4	1323.3
65°	13748.1	3997.7	1430.2	1562.7	1509.3	1272.0	1263.4	1274.1	1248.5	1276.3	1278.4
67.5°	12206.7	3176.7	1274.1	1445.1	1398.1	1227.1	1210.0	1210.0	1167.2	1210.0	1207.8
70°	9842.3	2244.7	1045.4	1257.0	1276.3	1173.6	1165.1	1115.9	1047.5	1111.6	1105.2
72.5°	7460.9	1611.9	823.0	994.1	1098.8	1098.8	1101.0	1017.6	938.5	968.4	942.8
75°	4726.6	1135.2	658.4	761.1	861.5	964.1	1013.3	859.4	788.8	776.0	763.2
77.5°	2129.2	746.1	513.1	583.6	611.4	761.1	925.7	739.7	643.5	615.7	607.1
80°	891.5	463.9	365.6	412.6	376.2	639.2	816.6	575.1	472.4	434.0	406.2
82.5°	391.2	275.8	233.0	222.3	235.2	474.6	609.3	382.7	295.0	399.8	404.0
85°	164.6	145.4	119.7	109.0	96.2	181.7	286.5	149.6	183.8	104.8	85.5
87.5°	38.5	42.8	32.1	21.4	12.8	2.1	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)