

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: P637499

Luminaire Tested: GWS-SA4C-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-830-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12856.3 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

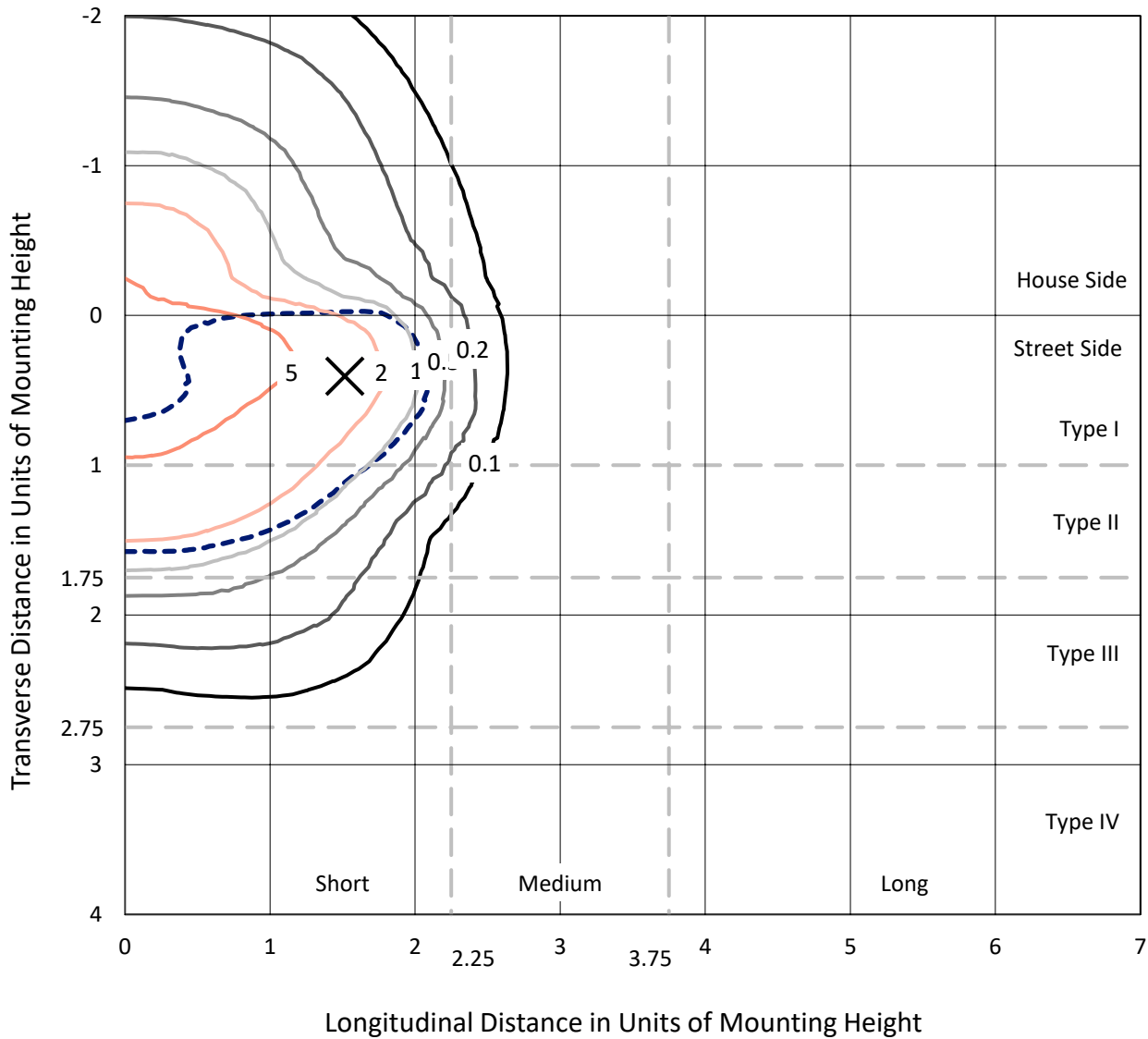
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

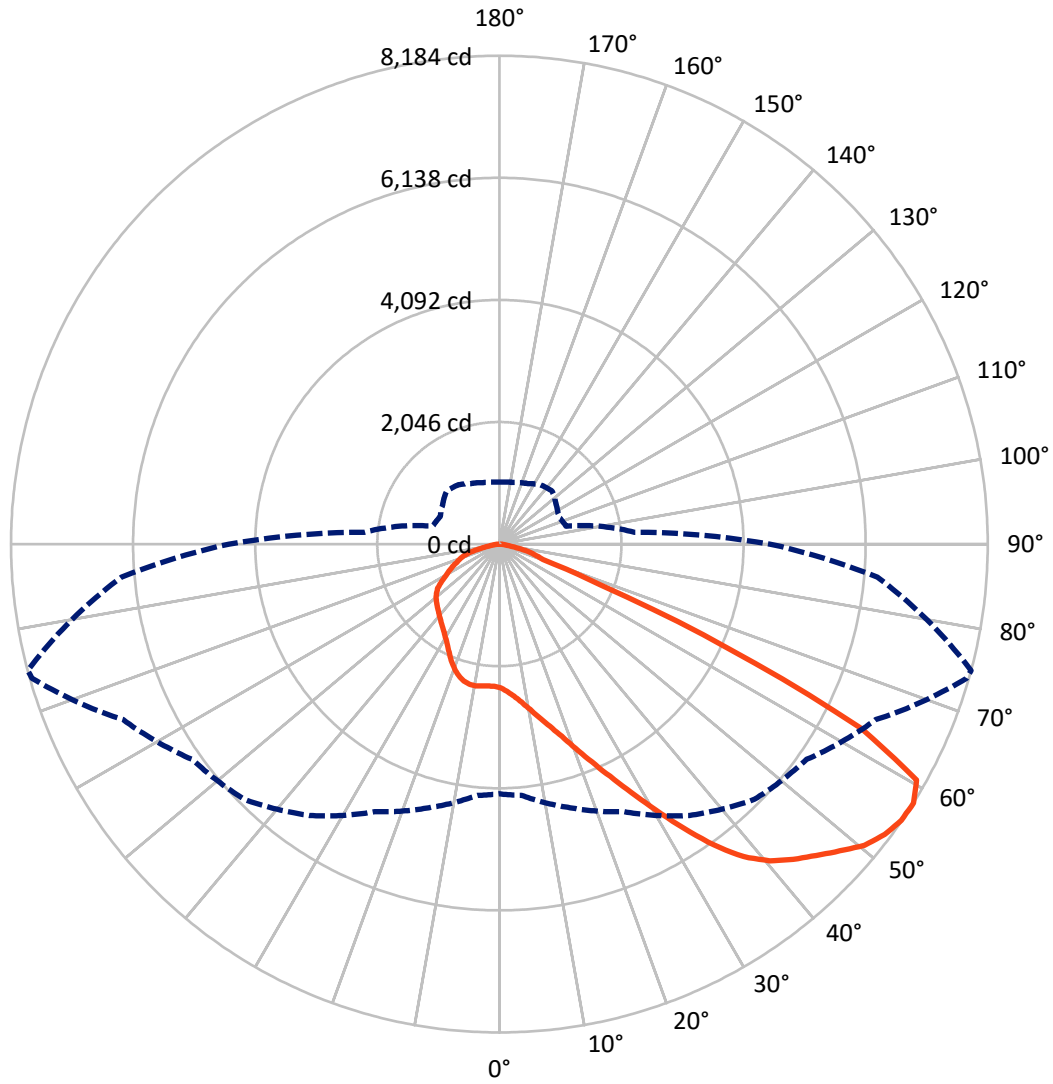
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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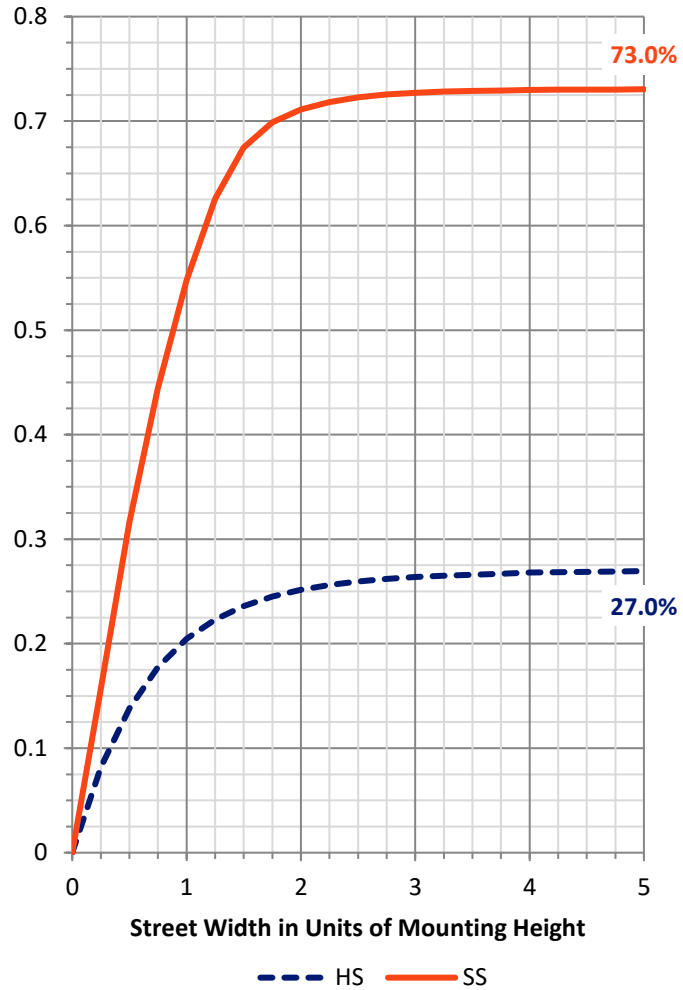
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3477.9	0.0	3477.9
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	9378.4	0.0	9378.4
	% Fixture	72.9	0.0	72.9
Total	Lumens	12856.3	0.0	12856.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	1.9
10°-20°	767.1	6.0
20°-30°	1360.4	10.6
30°-40°	2082.6	16.2
40°-50°	2899.8	22.6
50°-60°	3322.6	25.8
60°-70°	1707.2	13.3
70°-80°	429.8	3.3
80°-90°	45.9	0.4
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°	12856.3	100.0
0°-180°	12856.3	100.0

Coefficient of Utilization



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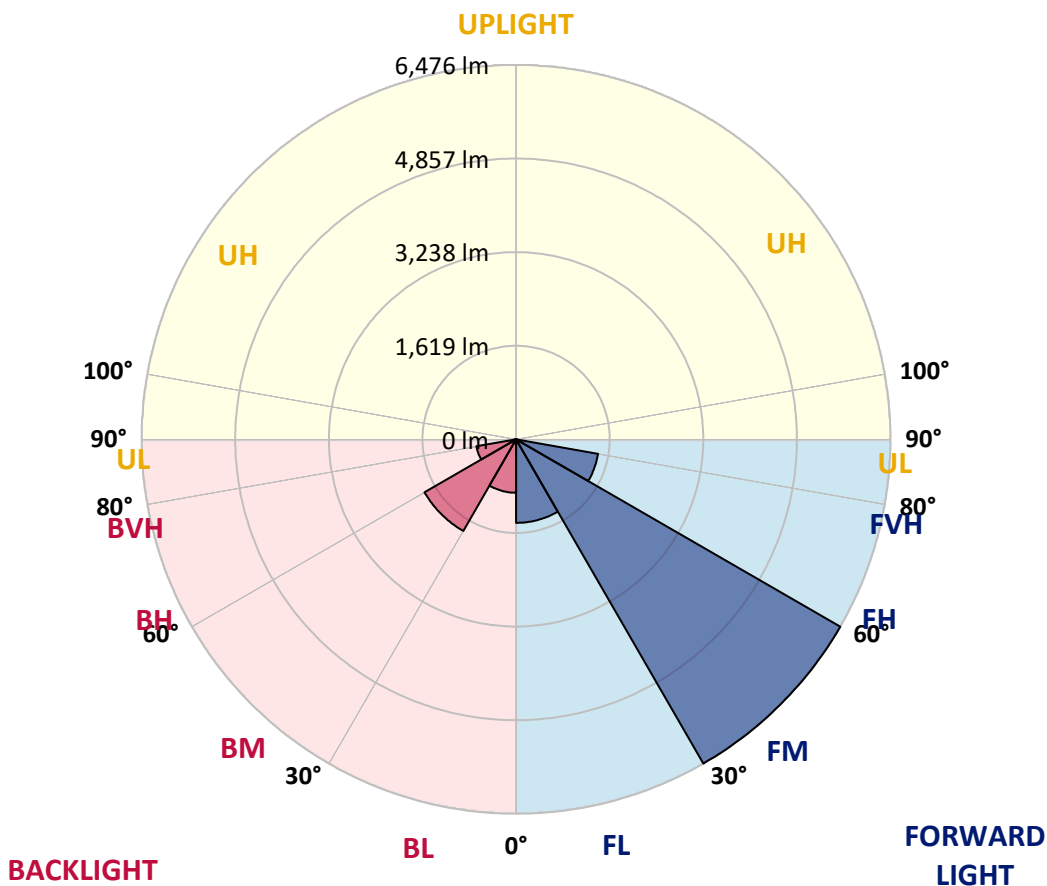
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1444.5	11.2			
FM (30°-60°)	6475.9	50.4			
FH (60°-80°)	1441.1	11.2			G1/1800
FVH (80°-90°)	17.0	0.1			G1/100
BL (0°-30°)	923.9	7.2	B2/1000		
BM (30°-60°)	1829.1	14.2	B2/2500		
BH (60°-80°)	695.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	28.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7
2.5°	2586.8	2593.4	2586.8	2597.8	2575.7	2565.8	2541.4	2505.0	2476.2	2471.8	2439.7
5°	2788.0	2802.3	2793.5	2789.1	2759.2	2737.1	2700.6	2627.7	2568.0	2559.1	2496.1
7.5°	2917.3	2927.2	2927.2	2930.6	2919.5	2894.1	2855.4	2769.2	2685.1	2671.9	2576.8
10°	2960.4	2968.1	2982.5	3010.1	3032.3	3040.0	3014.6	2931.7	2828.9	2815.6	2682.9
12.5°	2970.4	2979.2	3001.3	3052.2	3113.0	3168.2	3172.6	3111.8	2996.9	2982.5	2805.6
15°	2989.1	2998.0	3027.8	3090.8	3180.4	3286.5	3351.7	3309.7	3182.6	3167.1	2944.9
17.5°	2986.9	2996.9	3041.1	3125.1	3245.6	3399.3	3525.3	3543.0	3411.4	3384.9	3103.0
20°	2981.4	2990.3	3037.8	3140.6	3289.8	3501.0	3728.7	3820.4	3678.9	3654.6	3287.6
22.5°	3025.6	3035.6	3072.1	3157.2	3313.0	3579.5	3916.6	4137.7	3996.2	3961.9	3499.9
25°	3125.1	3139.5	3161.6	3220.2	3355.0	3649.1	4109.0	4497.0	4352.2	4311.3	3730.9
27.5°	3278.8	3296.5	3327.4	3355.0	3449.0	3737.5	4300.2	4899.4	4754.6	4711.4	3975.2
30°	3466.7	3489.9	3529.7	3548.5	3612.6	3868.0	4508.0	5313.9	5229.9	5170.2	4250.5
32.5°	3726.5	3758.5	3796.1	3801.7	3840.3	4065.9	4713.7	5725.1	5724.0	5682.0	4563.3
35°	4064.8	4099.0	4106.8	4114.5	4133.3	4337.8	4962.4	6099.9	6244.7	6196.1	4903.8
37.5°	4434.0	4483.7	4495.9	4461.6	4488.1	4665.0	5242.1	6400.6	6697.9	6646.0	5233.2
40°	4828.6	4848.5	4881.7	4827.5	4860.7	5039.8	5516.2	6592.9	7036.2	6980.9	5493.0
42.5°	5111.6	5148.1	5197.8	5177.9	5196.7	5360.3	5708.6	6685.8	7277.2	7221.9	5679.8
45°	5418.9	5430.0	5462.0	5457.6	5468.7	5621.2	5846.7	6726.7	7492.8	7443.0	5839.0
47.5°	5686.4	5703.0	5724.0	5699.7	5675.4	5774.9	5959.5	6762.1	7741.5	7681.8	6005.9
50°	5944.0	5958.4	5983.8	5913.1	5822.4	5847.8	6014.8	6810.7	7974.7	7932.7	6137.5
52.5°	5991.6	6007.0	6126.4	6140.8	6024.7	5935.2	6112.0	6917.9	8111.8	8085.3	6185.0
55°	5393.5	5421.1	5658.8	5931.9	6218.2	6189.4	6267.9	6974.3	8166.0	8172.6	6270.1
57.5°	4186.4	4226.1	4573.3	4948.0	5550.5	6049.0	6287.8	6959.9	8147.2	8183.7	6357.5
60°	2745.9	2769.2	3180.4	3600.5	4225.0	4914.8	5627.9	6701.3	7980.3	8032.2	6335.4
62.5°	1658.2	1684.7	2015.2	2333.6	2701.7	3162.7	3817.1	5385.8	6689.1	6805.2	5074.0
65°	1157.4	1192.8	1482.4	1744.4	1871.5	1776.5	1933.4	3007.9	4167.6	4216.2	3100.8
67.5°	839.0	863.4	1101.0	1412.8	1553.2	1254.7	956.2	1332.1	1815.2	1832.8	1279.0
70°	549.4	577.0	792.6	1075.6	1268.0	1017.0	715.2	720.8	763.9	772.7	742.9
72.5°	301.8	318.4	489.7	714.1	749.5	608.0	558.3	599.2	629.0	629.0	636.7
75°	155.9	170.2	200.1	235.5	284.1	332.7	402.4	463.2	495.2	497.5	494.1
77.5°	79.6	85.1	107.2	116.1	127.1	148.1	192.3	246.5	275.3	286.3	284.1
80°	37.6	39.8	45.3	53.1	65.2	82.9	103.9	123.8	141.5	143.7	155.9
82.5°	19.9	22.1	24.3	28.7	35.4	44.2	60.8	73.0	84.0	86.2	96.2
85°	7.7	8.8	9.9	11.1	15.5	18.8	25.4	34.3	42.0	42.0	49.7
87.5°	0.0	0.0	0.0	0.0	1.1	2.2	4.4	5.5	7.7	7.7	13.3
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°	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7	2407.7
2.5°	2432.0	2399.9	2385.6	2362.4	2343.6	2322.6	2306.0	2293.8	2286.1	2281.7	2277.2
5°	2471.8	2423.2	2384.5	2338.0	2306.0	2275.0	2249.6	2231.9	2223.1	2216.4	2212.0
7.5°	2533.7	2468.5	2395.5	2323.7	2267.3	2217.5	2185.5	2166.7	2154.5	2150.1	2146.8
10°	2618.8	2528.2	2407.7	2293.8	2209.8	2155.6	2133.5	2124.7	2125.8	2123.6	2122.5
12.5°	2715.0	2591.2	2404.4	2240.8	2147.9	2115.8	2116.9	2131.3	2147.9	2152.3	2153.4
15°	2818.9	2653.1	2372.3	2172.2	2099.3	2102.6	2131.3	2165.6	2196.5	2208.7	2210.9
17.5°	2931.7	2705.0	2313.7	2097.0	2059.5	2094.8	2147.9	2204.3	2249.6	2269.5	2275.0
20°	3057.7	2749.3	2230.8	2023.0	2021.9	2080.5	2157.8	2231.9	2289.4	2315.9	2320.3
22.5°	3191.4	2776.9	2129.1	1954.4	1983.2	2061.7	2150.1	2227.5	2288.3	2314.8	2320.3
25°	3326.3	2785.7	2017.5	1891.4	1943.4	2031.8	2112.5	2174.4	2231.9	2255.1	2259.5
27.5°	3452.3	2760.3	1911.3	1837.3	1906.9	1987.6	2041.8	2074.9	2114.7	2132.4	2135.7
30°	3580.6	2709.5	1821.8	1794.2	1866.0	1926.8	1951.1	1953.3	1968.8	1968.8	1971.0
32.5°	3709.9	2634.3	1743.3	1752.1	1815.2	1854.9	1858.3	1832.8	1814.0	1783.1	1782.0
35°	3859.1	2558.0	1679.2	1704.6	1755.5	1779.8	1769.8	1721.2	1675.9	1625.0	1622.8
37.5°	3997.3	2479.5	1625.0	1656.0	1688.0	1705.7	1682.5	1623.9	1586.3	1534.4	1526.6
40°	4111.2	2408.8	1573.1	1605.1	1620.6	1636.1	1598.5	1551.0	1556.5	1527.7	1526.6
42.5°	4177.5	2340.2	1524.4	1548.7	1558.7	1569.7	1536.6	1501.2	1531.1	1508.9	1510.0
45°	4226.1	2280.5	1480.2	1489.0	1513.4	1529.9	1499.0	1459.2	1465.8	1380.7	1360.8
47.5°	4281.4	2247.4	1438.2	1429.4	1472.5	1501.2	1453.7	1396.2	1356.4	1272.4	1264.6
50°	4340.0	2235.2	1394.0	1369.7	1421.6	1449.2	1394.0	1322.1	1270.2	1224.8	1220.4
52.5°	4359.9	2234.1	1338.7	1297.8	1349.8	1388.4	1342.0	1269.1	1207.2	1162.9	1160.7
55°	4438.4	2266.2	1268.0	1199.4	1248.1	1327.6	1293.4	1188.4	1138.6	1118.7	1116.5
57.5°	4530.1	2271.7	1156.3	1092.2	1159.6	1253.6	1210.5	1119.8	1065.7	1041.3	1039.1
60°	4492.6	2135.7	1036.9	1010.4	1084.4	1183.9	1144.1	1065.7	1002.6	979.4	977.2
62.5°	3423.6	1507.8	949.6	939.6	1003.8	1083.3	1075.6	993.8	934.1	917.5	915.3
65°	2059.5	1059.0	865.6	864.5	909.8	986.1	996.0	929.7	866.7	843.5	843.5
67.5°	1018.1	810.3	770.5	765.0	793.7	847.9	889.9	835.7	782.7	760.6	757.2
70°	719.6	714.1	700.9	685.4	690.9	713.0	730.7	685.4	629.0	606.9	602.5
72.5°	622.4	623.5	614.6	602.5	598.1	582.6	567.1	533.9	499.7	476.5	478.7
75°	483.1	485.3	490.8	486.4	474.2	457.7	441.1	399.1	371.4	349.3	344.9
77.5°	281.9	292.9	310.6	306.2	308.4	285.2	278.6	237.7	212.2	196.8	193.5
80°	159.2	165.8	173.6	179.1	172.5	162.5	148.1	126.0	118.3	107.2	105.0
82.5°	96.2	102.8	106.1	110.5	108.3	95.1	84.0	69.6	63.0	57.5	56.4
85°	48.6	53.1	56.4	58.6	52.0	43.1	38.7	31.0	26.5	23.2	23.2
87.5°	12.2	13.3	15.5	13.3	12.2	5.5	4.4	1.1	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)