

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: P637513

Luminaire Tested: GWS-SA4C-830-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-830-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15676.3 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

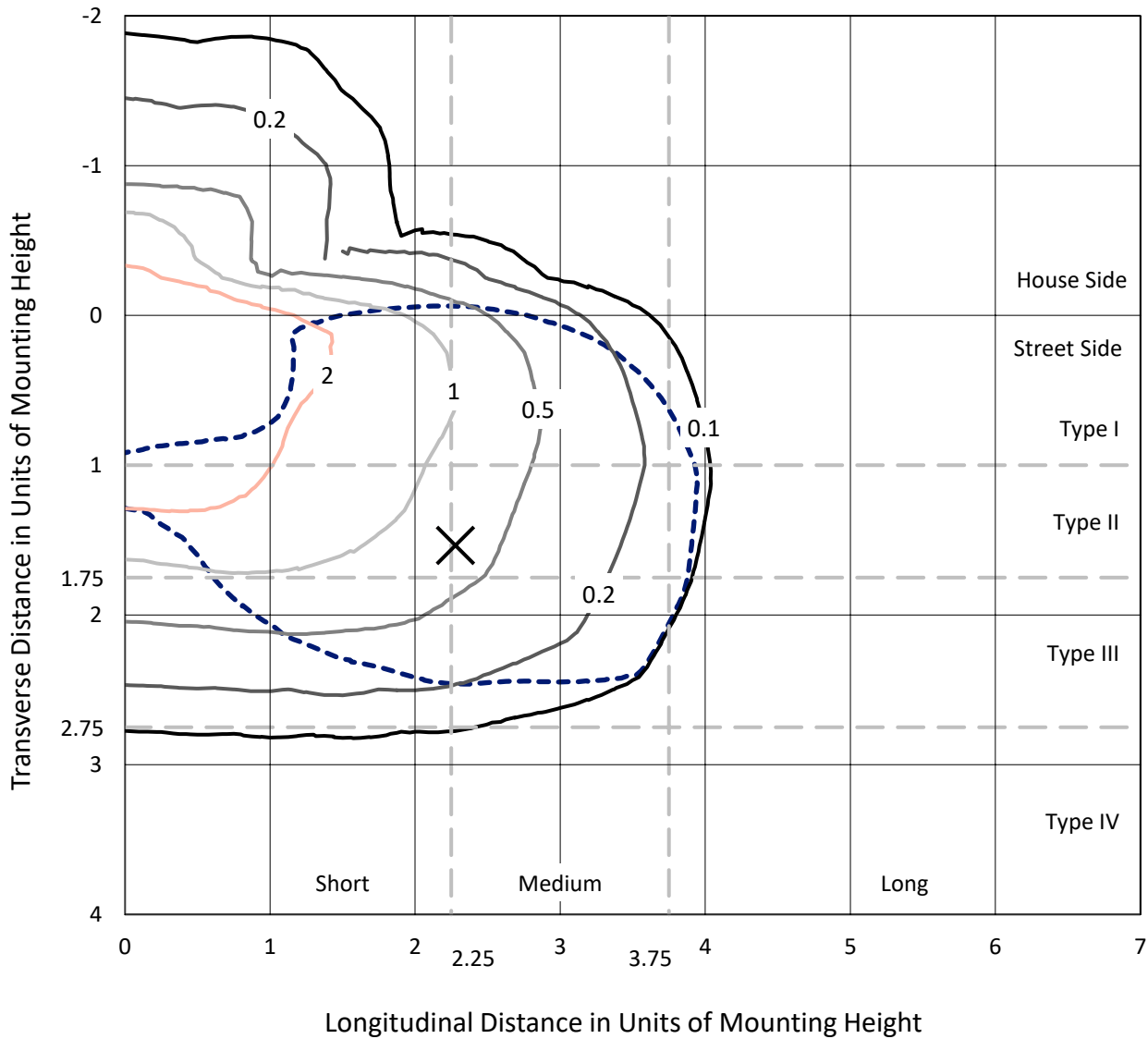
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637513
 CATALOG NUMBER: GWS-SA4C-830-U-T3R-W

Iso-Footcandle Lines of Horizontal Illumination

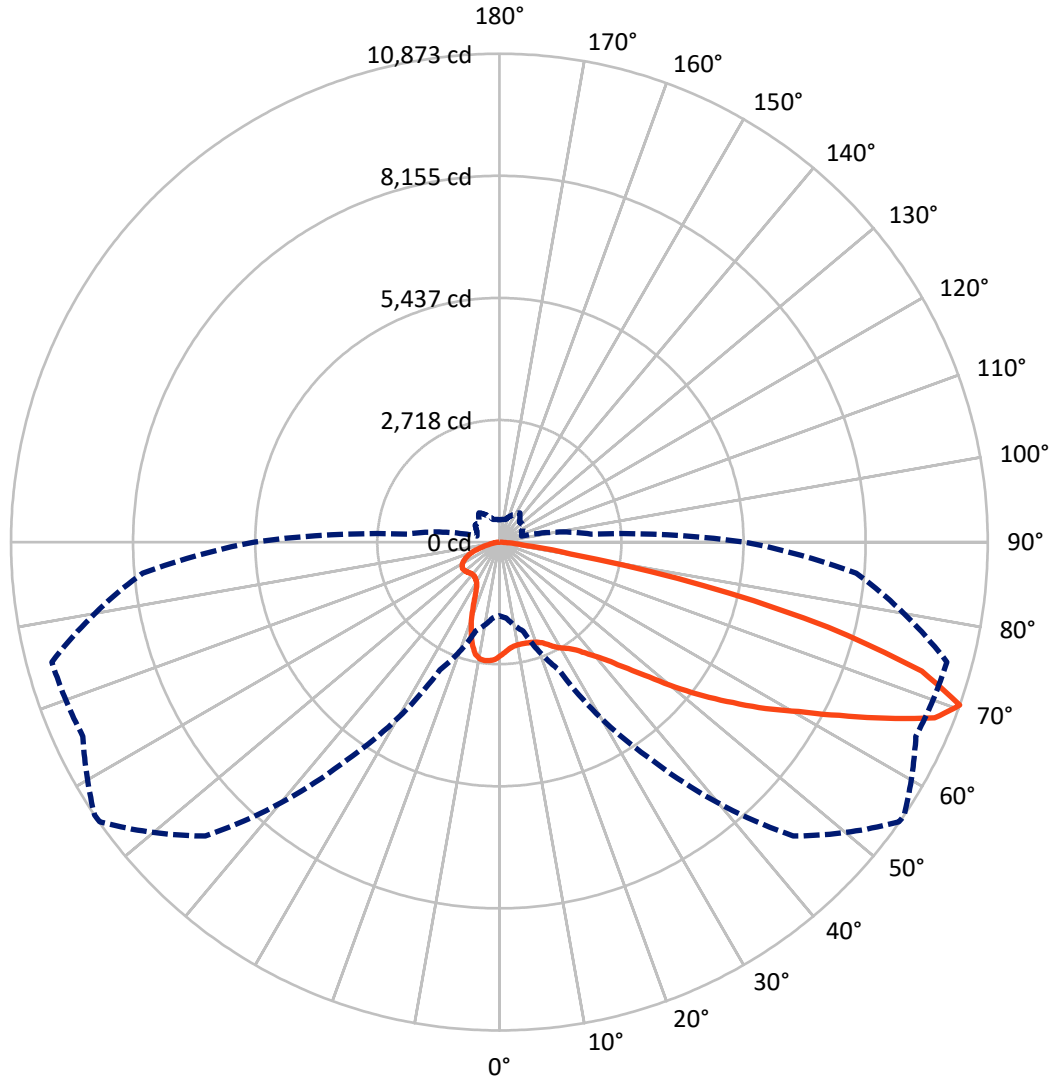
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P637513
CATALOG NUMBER: GWS-SA4C-830-U-T3R-W

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P637513

CATALOG NUMBER: GWS-SA4C-830-U-T3R-W

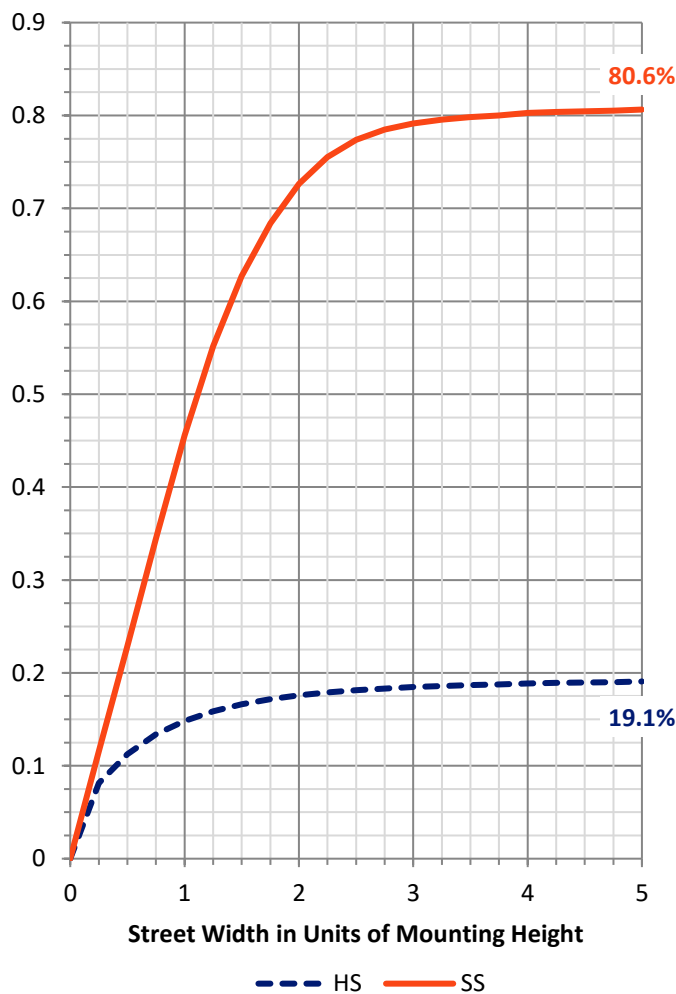
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3013.8	0.0	3013.8
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	12662.5	0.0	12662.5
	% Fixture	80.8	0.0	80.8
Total	Lumens	15676.3	0.0	15676.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.2	1.5
10°-20°	634.5	4.0
20°-30°	1048.9	6.7
30°-40°	1568.3	10.0
40°-50°	2333.9	14.9
50°-60°	3318.1	21.2
60°-70°	4109.5	26.2
70°-80°	2269.2	14.5
80°-90°	159.8	1.0
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°	15676.3	100.0
0°-180°	15676.3	100.0

Coefficient of Utilization



REPORT NUMBER: P637513

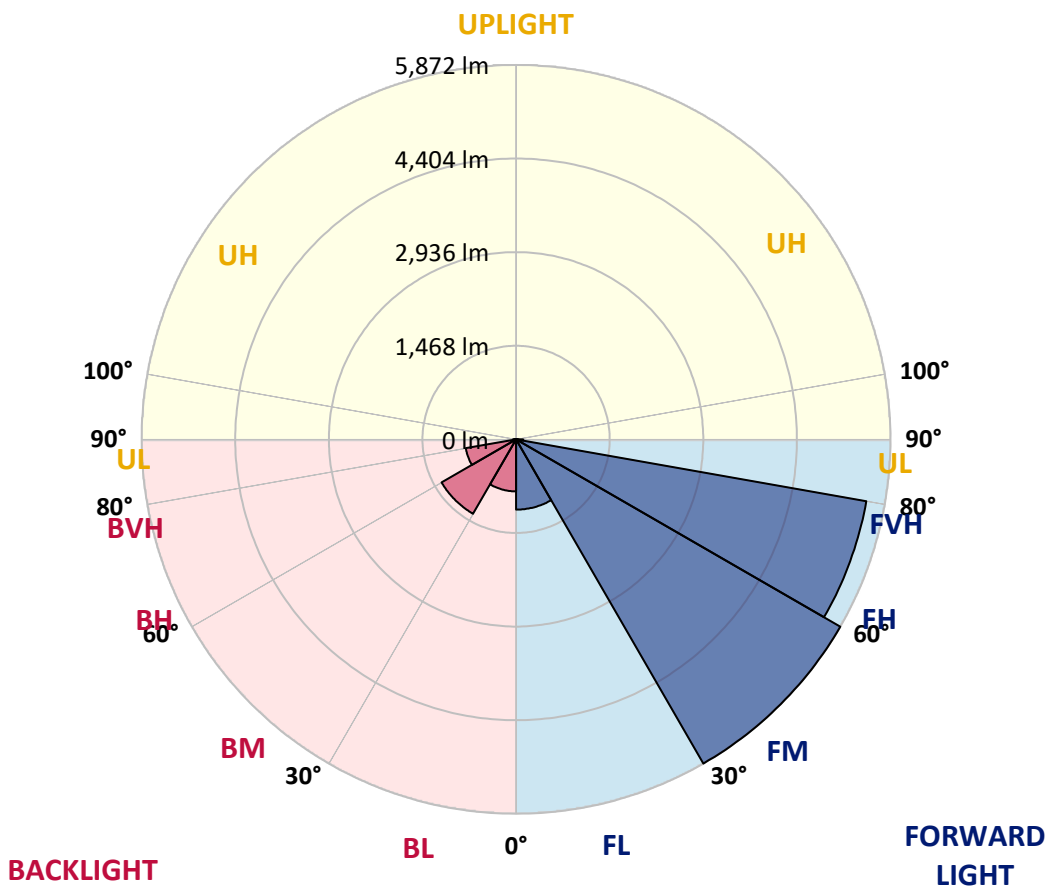
CATALOG NUMBER: GWS-SA4C-830-U-T3R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1101.7	7.0			
FM (30°-60°)	5872.1	37.5			
FH (60°-80°)	5577.6	35.6			G3/7500
FVH (80°-90°)	111.1	0.7			G2/225
BL (0°-30°)	815.9	5.2	B2/1000		
BM (30°-60°)	1348.1	8.6	B2/2500		
BH (60°-80°)	801.0	5.1	B2/1000		G2/1000
BVH (80°-90°)	48.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P637513

CATALOG NUMBER: GWS-SA4C-830-U-T3R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4
2.5°	2367.9	2354.6	2370.1	2377.8	2397.7	2426.5	2451.9	2453.0	2466.3	2498.3	2529.3
5°	2260.7	2254.0	2258.5	2281.7	2302.7	2339.2	2377.8	2381.2	2418.7	2481.8	2543.7
7.5°	2177.8	2168.9	2185.5	2215.3	2241.9	2282.8	2333.6	2338.0	2391.1	2486.2	2581.2
10°	2058.4	2051.7	2082.7	2122.5	2180.0	2247.4	2314.8	2320.4	2390.0	2514.9	2647.6
12.5°	2006.4	2006.4	2019.7	2057.3	2120.3	2209.8	2311.5	2320.4	2407.7	2559.1	2732.7
15°	2087.1	2092.6	2081.6	2079.4	2104.8	2189.9	2315.9	2329.2	2440.9	2604.5	2816.7
17.5°	2249.6	2255.1	2226.4	2181.1	2155.6	2208.7	2332.5	2346.9	2476.2	2654.2	2907.4
20°	2477.3	2484.0	2421.0	2351.3	2264.0	2262.9	2364.6	2377.8	2521.6	2708.4	3003.5
22.5°	2743.7	2748.2	2668.6	2558.0	2424.3	2363.5	2419.9	2433.1	2580.1	2783.5	3107.4
25°	3052.2	3065.4	2969.3	2809.0	2627.7	2501.7	2511.6	2527.1	2685.2	2884.1	3230.2
27.5°	3381.6	3398.2	3287.6	3110.8	2860.9	2654.2	2629.9	2643.2	2796.8	2946.0	3295.4
30°	3718.8	3730.9	3620.4	3418.1	3111.9	2826.7	2729.4	2737.1	2845.5	2975.9	3361.7
32.5°	4093.5	4083.6	3977.4	3744.2	3401.5	3033.4	2822.2	2820.0	2899.6	3035.6	3456.8
35°	4445.1	4459.4	4346.7	4089.1	3719.9	3288.7	2961.5	2952.7	3014.6	3132.9	3590.5
37.5°	4870.7	4866.2	4731.4	4452.8	4039.3	3533.0	3157.2	3141.7	3163.8	3284.3	3777.4
40°	5174.7	5205.6	5118.3	4858.5	4413.0	3833.7	3386.0	3351.8	3357.3	3471.1	4027.2
42.5°	5423.4	5452.1	5461.0	5295.1	4840.8	4205.2	3671.2	3637.0	3640.3	3801.7	4334.5
45°	5614.6	5653.3	5778.2	5729.6	5322.8	4634.1	4057.0	4021.7	4023.9	4203.0	4705.9
47.5°	5693.1	5735.1	5988.3	6104.3	5834.6	5147.0	4536.8	4484.8	4492.6	4690.5	5130.4
50°	5667.7	5724.1	6066.8	6392.9	6263.5	5668.8	5110.5	5074.1	5044.2	5331.6	5591.4
52.5°	5448.8	5510.7	6059.0	6576.4	6614.0	6161.8	5703.1	5682.1	5675.4	6012.6	6106.6
55°	4804.3	4908.2	5792.6	6625.0	6888.1	6626.1	6345.3	6310.0	6344.2	6742.2	6627.2
57.5°	4447.3	4524.6	5270.8	6570.8	7112.5	7068.3	6986.5	6989.8	7028.5	7534.8	7258.4
60°	4243.9	4334.5	4981.2	6422.7	7328.1	7605.6	7657.5	7657.5	7727.2	8389.3	7899.6
62.5°	3974.1	4065.9	4710.4	6137.5	7527.1	8237.9	8501.0	8497.7	8525.3	9305.8	8526.4
65°	3426.9	3512.0	4166.5	5687.6	7624.4	8934.3	9459.4	9449.5	9394.2	10121.6	8941.0
67.5°	2488.4	2569.1	3191.5	4832.0	7273.9	9495.9	10446.6	10451.0	10120.5	10635.6	8963.1
70°	1640.5	1695.8	2051.7	3138.4	5915.3	9253.8	10860.0	10873.3	10232.1	10315.0	7977.0
72.5°	1023.7	1062.3	1281.2	1871.5	3495.5	7324.8	9798.8	9835.3	9205.2	9064.8	6554.3
75°	679.9	706.4	852.3	1091.1	1617.3	3964.2	7448.6	7565.8	7377.8	7105.9	4566.7
77.5°	409.0	431.1	542.8	693.1	716.3	1548.7	4347.8	4650.7	4677.2	3709.9	1912.4
80°	186.8	212.2	299.6	395.8	381.4	539.5	1533.3	1604.0	1892.5	1178.4	603.6
82.5°	110.5	121.6	199.0	196.8	162.5	262.0	551.6	566.0	480.9	431.1	257.6
85°	44.2	52.0	84.0	74.1	59.7	85.1	207.8	217.8	208.9	187.9	95.1
87.5°	0.0	0.0	0.0	0.0	1.1	2.2	18.8	19.9	28.7	52.0	28.7
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: P637513
 CATALOG NUMBER: GWS-SA4C-830-U-T3R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4
2.5°	2549.2	2542.6	2575.7	2601.1	2612.2	2623.3	2613.3	2610.0	2610.0	2587.9	2576.8
5°	2576.8	2580.1	2625.5	2646.5	2646.5	2637.6	2611.1	2592.3	2585.7	2556.9	2549.2
7.5°	2628.8	2643.2	2685.2	2684.1	2653.1	2604.5	2538.1	2487.3	2440.9	2421.0	2408.8
10°	2713.9	2732.7	2761.4	2715.0	2628.8	2500.5	2360.2	2249.6	2183.3	2130.2	2130.2
12.5°	2811.2	2828.9	2823.3	2716.1	2538.1	2298.2	2096.0	1968.8	1876.0	1827.3	1827.3
15°	2908.5	2922.8	2863.1	2665.3	2349.1	2029.6	1808.5	1656.0	1575.3	1530.0	1530.0
17.5°	3006.8	3005.7	2879.7	2548.1	2102.6	1732.3	1515.6	1397.3	1369.7	1361.9	1360.8
20°	3101.9	3076.5	2858.7	2352.4	1816.3	1432.7	1295.6	1303.3	1344.2	1361.9	1364.1
22.5°	3209.1	3146.1	2796.8	2102.6	1491.3	1224.8	1233.7	1297.8	1357.5	1384.0	1387.4
25°	3318.6	3205.8	2692.9	1809.6	1219.3	1148.6	1217.1	1289.0	1356.4	1390.7	1394.0
27.5°	3362.8	3205.8	2516.0	1470.3	1074.5	1116.5	1191.7	1261.3	1332.1	1371.9	1379.6
30°	3399.3	3178.2	2268.4	1164.0	1014.8	1085.6	1150.8	1214.9	1284.5	1333.2	1342.0
32.5°	3450.1	3153.9	1968.8	978.3	987.2	1055.7	1101.0	1155.2	1218.2	1250.3	1247.0
35°	3509.8	3116.3	1607.3	889.9	964.0	1030.3	1062.3	1094.4	1065.7	1064.6	1067.9
37.5°	3595.0	3083.1	1292.3	850.1	948.5	1012.6	1039.1	970.6	930.8	914.2	907.6
40°	3717.7	3069.9	1019.2	826.9	946.3	1011.5	992.7	886.6	832.4	774.9	773.8
42.5°	3872.4	3059.9	842.4	815.8	954.0	1036.9	928.6	831.3	719.7	694.2	692.0
45°	4071.4	3044.4	753.9	813.6	972.8	1056.8	922.0	755.0	678.8	667.7	667.7
47.5°	4311.3	3020.1	714.1	813.6	993.8	1048.0	902.1	738.4	660.0	672.1	679.9
50°	4586.5	2989.2	693.1	811.4	1014.8	1048.0	860.0	735.1	655.5	718.5	744.0
52.5°	4880.6	2953.8	678.8	802.6	1029.2	1049.1	862.3	746.2	660.0	729.6	750.6
55°	5205.6	2948.3	658.9	783.8	1033.6	1020.3	867.8	770.5	666.6	661.1	662.2
57.5°	5615.7	3014.6	644.5	756.1	1015.9	961.7	878.8	788.2	658.9	660.0	667.7
60°	6044.7	3139.5	656.6	729.6	979.4	906.5	886.6	779.3	621.3	603.6	605.8
62.5°	6409.5	3234.6	666.6	717.4	926.4	857.8	878.8	759.5	600.3	595.8	605.8
65°	6562.0	3156.1	642.3	692.0	849.0	798.1	862.3	734.0	582.6	566.0	567.1
67.5°	6392.9	2788.0	594.7	635.6	761.7	721.9	835.7	700.9	558.3	538.4	533.9
70°	5461.0	2048.4	512.9	546.1	655.5	632.3	794.8	657.7	519.6	505.2	495.2
72.5°	4400.8	1450.4	425.6	434.4	514.0	532.8	724.1	603.6	475.3	434.4	420.1
75°	3063.2	910.9	354.9	346.0	371.4	406.8	564.9	500.8	410.1	367.0	353.7
77.5°	1317.7	467.6	277.5	273.0	247.6	281.9	433.3	417.9	343.8	294.1	286.3
80°	441.1	270.8	200.1	192.3	164.7	197.9	305.1	333.8	269.7	217.8	204.5
82.5°	221.1	157.0	127.1	115.0	110.5	124.9	180.2	207.8	186.8	150.3	127.1
85°	108.3	89.5	69.6	68.5	57.5	54.2	75.2	88.4	84.0	61.9	58.6
87.5°	39.8	35.4	22.1	17.7	11.1	7.7	4.4	4.4	3.3	3.3	3.3
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)