

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: P636017

Luminaire Tested: GWS-SA3E-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-830-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11710.8 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

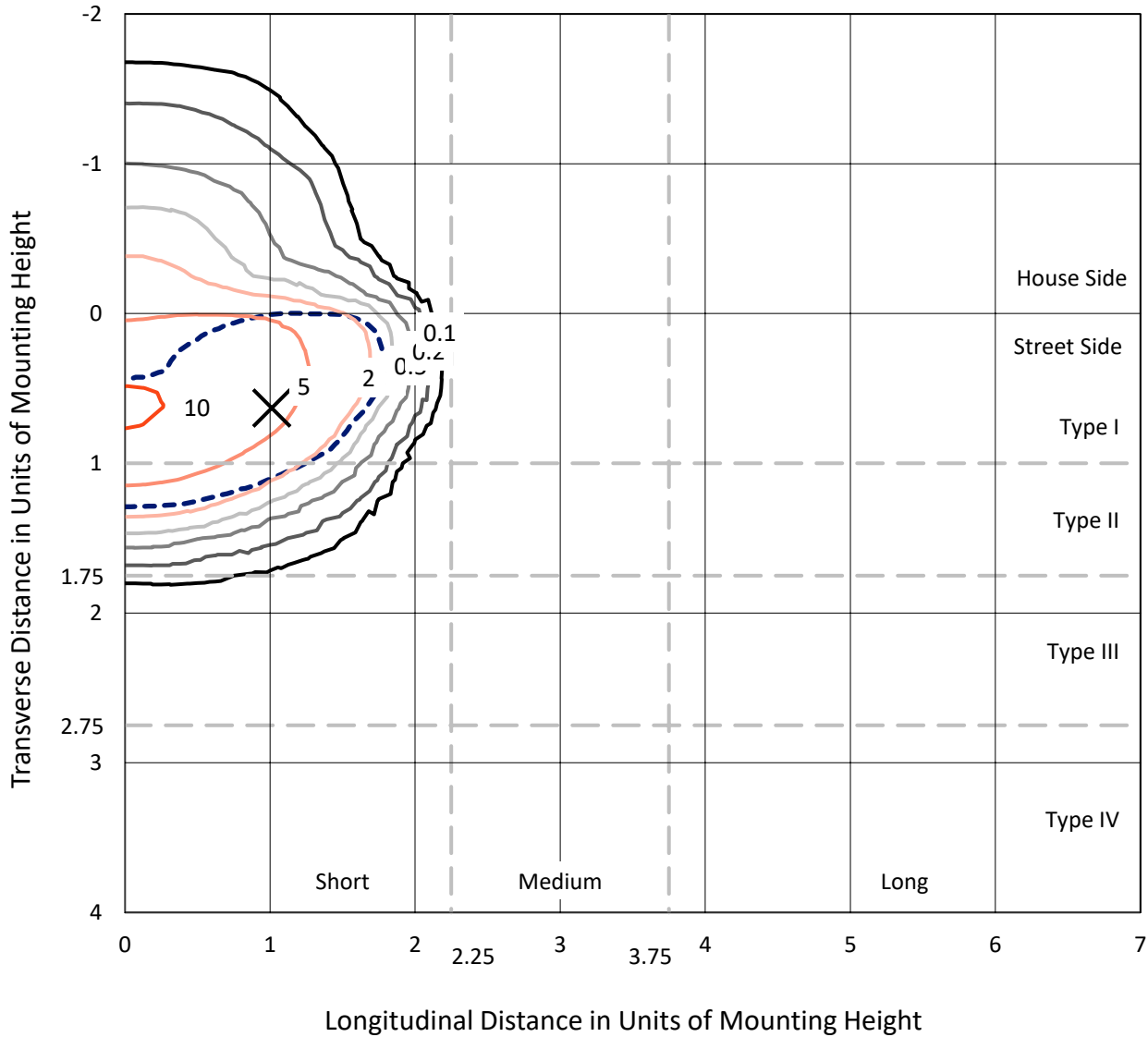
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636017
 CATALOG NUMBER: GWS-SA3E-830-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

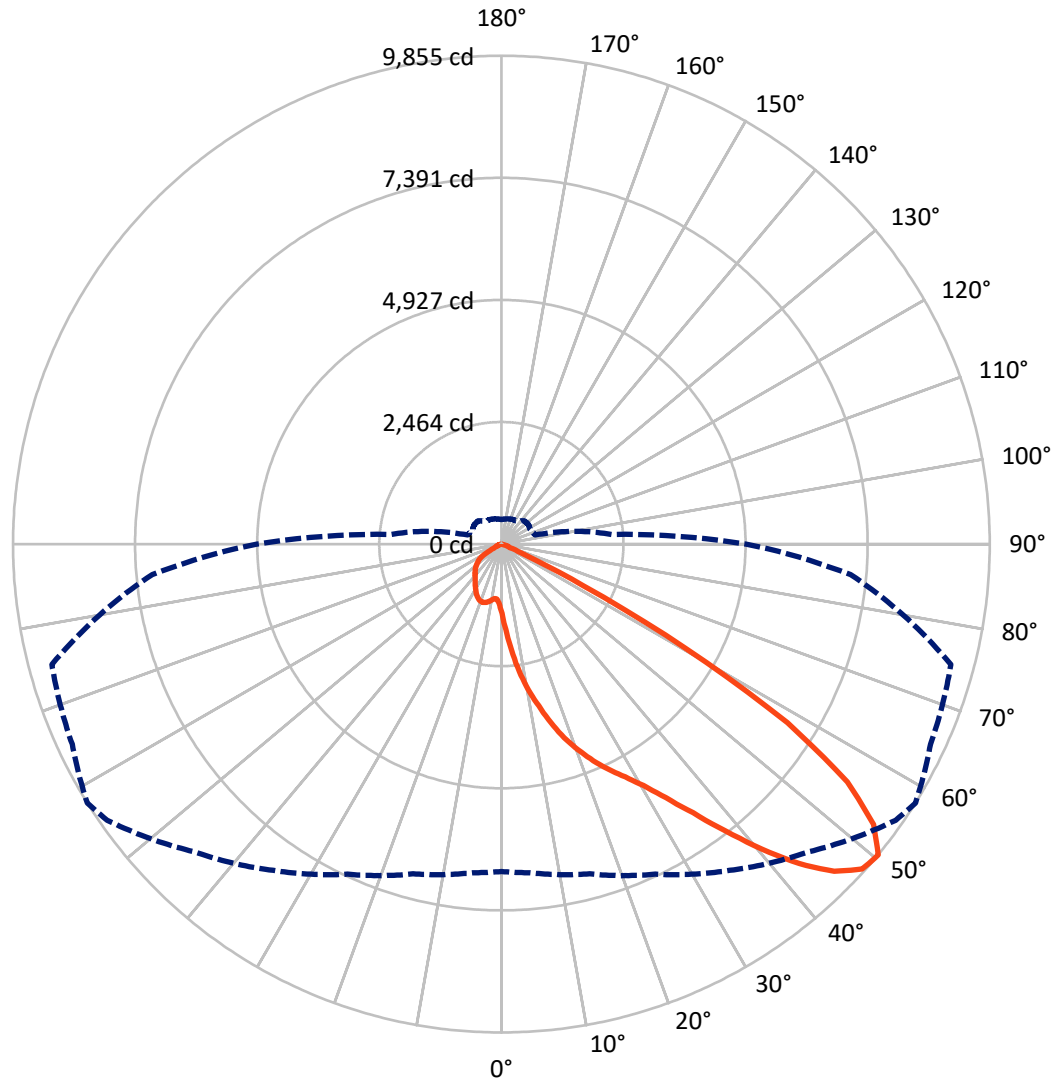
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

REPORT NUMBER: P636017
CATALOG NUMBER: GWS-SA3E-830-U-T2R-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P636017
 CATALOG NUMBER: GWS-SA3E-830-U-T2R-W-GRSBK

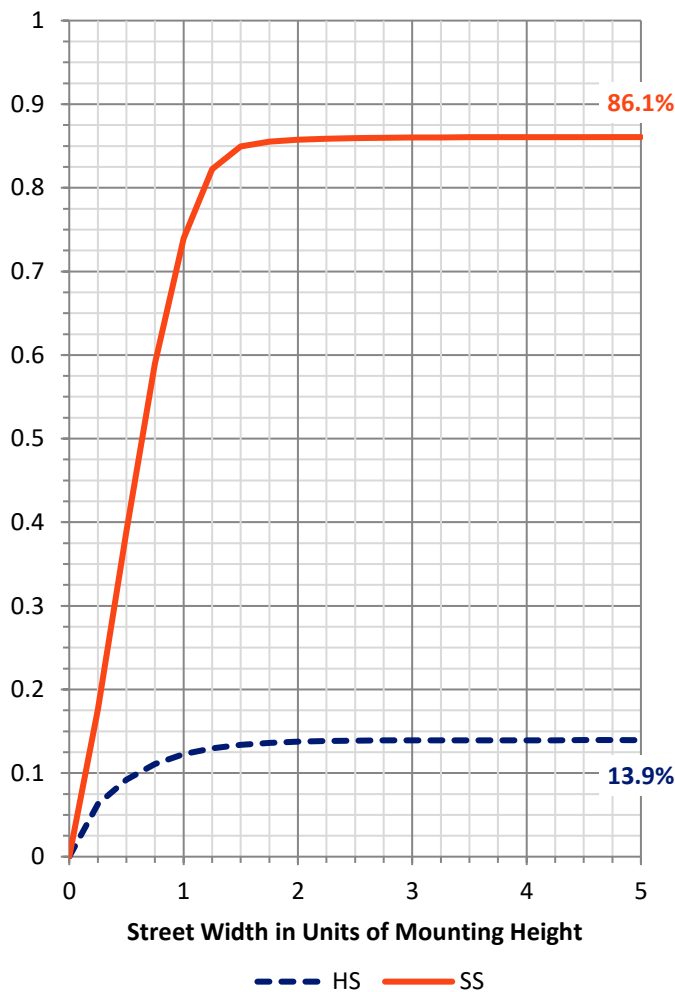
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1640.3	0.0	1640.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10070.5	0.0	10070.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	11710.8	0.0	11710.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	1.5
10°-20°	686.0	5.9
20°-30°	1388.2	11.9
30°-40°	2455.9	21.0
40°-50°	3580.1	30.6
50°-60°	2869.6	24.5
60°-70°	517.0	4.4
70°-80°	40.7	0.3
80°-90°	0.0	0.0
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°	11710.8	100.0
0°-180°	11710.8	100.0

Coefficient of Utilization



REPORT NUMBER: P636017

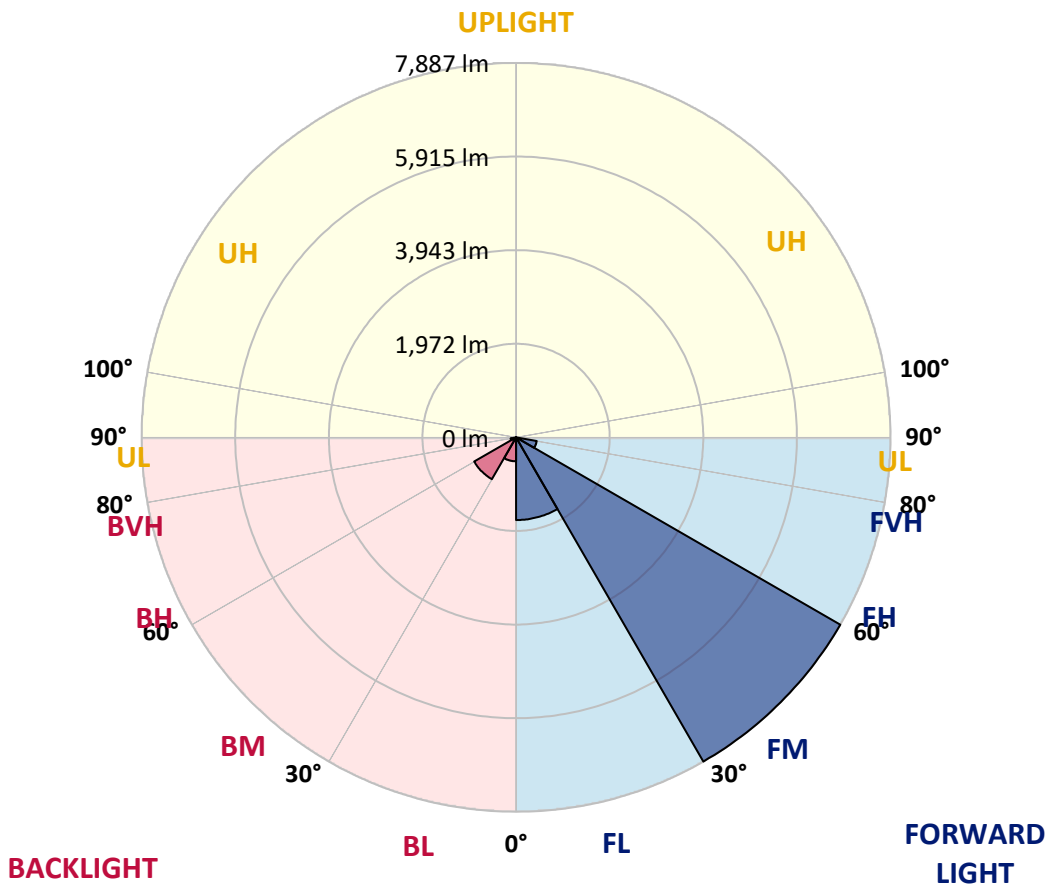
CATALOG NUMBER: GWS-SA3E-830-U-T2R-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1742.5	14.9			
FM (30°-60°)	7886.9	67.3			
FH (60°-80°)	441.1	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	505.0	4.3	B2/1000		
BM (30°-60°)	1018.7	8.7	B2/2500		
BH (60°-80°)	116.6	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P636017

CATALOG NUMBER: GWS-SA3E-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8
2.5°	2070.1	2037.5	2018.7	2003.7	1937.3	1832.1	1763.3	1726.9	1666.8	1565.4	1477.7
5°	2701.2	2677.4	2633.6	2603.6	2518.4	2369.4	2215.3	2154.0	2017.5	1788.3	1582.9
7.5°	3119.5	3102.0	3085.7	3045.6	2965.5	2830.2	2659.9	2596.0	2385.7	2060.1	1723.2
10°	3441.4	3427.6	3408.8	3407.5	3344.9	3223.5	3056.9	2990.5	2762.6	2355.6	1888.5
12.5°	3724.4	3713.1	3709.4	3744.4	3704.3	3614.2	3433.8	3351.2	3109.5	2657.4	2071.3
15°	3918.5	3916.0	3932.3	4001.1	4023.7	3982.4	3830.8	3741.9	3463.9	2960.5	2273.0
17.5°	4007.4	4014.9	4046.2	4165.2	4265.4	4300.4	4184.0	4108.8	3815.8	3267.3	2488.3
20°	4158.9	4156.4	4175.2	4287.9	4410.7	4535.9	4500.8	4436.9	4171.5	3591.6	2727.5
22.5°	4586.0	4549.7	4509.6	4527.1	4570.9	4717.5	4782.6	4750.0	4538.4	3924.8	2974.2
25°	5242.2	5204.6	5075.6	4950.4	4867.7	4934.1	5023.0	5039.3	4902.8	4266.6	3232.2
27.5°	5938.5	5904.7	5759.4	5571.5	5334.9	5219.6	5286.0	5318.6	5261.0	4673.6	3506.5
30°	6590.9	6545.8	6386.8	6153.9	5879.6	5703.0	5627.9	5650.4	5684.3	5155.8	3828.3
32.5°	7157.0	7123.2	6932.8	6687.4	6423.1	6239.0	6063.7	6101.3	6183.9	5745.6	4240.3
35°	7636.6	7619.1	7417.5	7173.3	6894.0	6800.1	6649.8	6657.3	6740.0	6458.2	4742.5
37.5°	8053.6	8023.6	7840.7	7614.1	7392.4	7377.4	7336.1	7339.8	7382.4	7288.5	5319.8
40°	8316.6	8289.1	8158.8	8018.6	7860.8	7863.3	8077.4	8093.7	8044.9	8103.7	5929.7
42.5°	8415.6	8395.5	8325.4	8326.6	8310.4	8384.2	8786.2	8816.3	8641.0	8743.7	6450.7
45°	8244.0	8235.2	8240.2	8420.6	8615.9	8843.8	9366.1	9418.7	9170.7	9168.2	6857.7
47.5°	7690.5	7672.9	7819.4	8126.3	8578.4	9021.7	9716.7	9798.1	9541.4	9411.1	7113.1
50°	6606.0	6656.0	6887.7	7348.6	8036.1	8777.5	9712.9	9854.5	9555.2	9389.9	7070.6
52.5°	4785.1	4775.1	5282.3	5915.9	6752.5	7996.0	9197.0	9403.6	9220.8	9180.7	6975.4
55°	2603.6	2695.0	3036.9	3875.9	4920.3	6517.0	8018.6	8469.4	8681.0	9104.3	7147.0
57.5°	956.8	996.8	1211.0	1804.6	2604.8	4052.5	6125.1	6805.1	7458.8	8891.4	7118.2
60°	385.7	393.2	478.4	663.7	1094.5	2062.6	3674.3	4277.9	4894.0	6806.3	5462.6
62.5°	280.5	290.5	324.3	388.2	553.5	901.7	1584.2	1842.2	2013.7	3371.2	2691.2
65°	226.7	234.2	261.7	290.5	365.7	484.6	510.9	492.2	489.7	871.6	617.4
67.5°	187.8	195.4	215.4	235.4	263.0	241.7	175.3	184.1	150.3	149.0	121.5
70°	137.8	146.5	166.6	187.8	157.8	65.1	101.4	150.3	114.0	95.2	92.7
72.5°	103.9	110.2	129.0	122.7	46.3	25.0	67.6	109.0	87.7	70.1	68.9
75°	77.6	81.4	65.1	20.0	5.0	6.3	25.0	45.1	48.8	40.1	40.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.8	5.0	6.3	7.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P636017

CATALOG NUMBER: GWS-SA3E-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8	1398.8
2.5°	1427.6	1375.0	1299.9	1237.3	1189.7	1143.4	1108.3	1073.2	1072.0	1054.4	1050.7
5°	1487.7	1392.6	1254.8	1155.9	1095.8	1059.5	1034.4	1021.9	1015.6	1009.4	1006.9
7.5°	1574.2	1437.7	1247.3	1142.1	1092.0	1068.2	1050.7	1043.2	1039.4	1034.4	1033.2
10°	1680.6	1502.8	1274.9	1168.4	1124.6	1102.0	1083.3	1072.0	1065.7	1057.0	1054.4
12.5°	1808.3	1582.9	1318.7	1212.2	1165.9	1135.8	1110.8	1094.5	1085.8	1074.5	1072.0
15°	1946.1	1669.3	1367.5	1252.3	1197.2	1158.4	1127.1	1102.0	1085.8	1072.0	1068.2
17.5°	2088.9	1757.0	1411.4	1279.9	1212.2	1165.9	1120.8	1087.0	1067.0	1049.4	1044.4
20°	2249.2	1847.2	1440.2	1284.9	1207.2	1145.9	1093.3	1050.7	1030.7	1006.9	1001.9
22.5°	2417.0	1931.1	1452.7	1273.6	1179.7	1108.3	1051.9	1008.1	979.3	954.3	946.7
25°	2579.8	2006.2	1446.4	1242.3	1138.4	1055.7	998.1	953.0	921.7	896.7	890.4
27.5°	2752.6	2068.8	1423.9	1196.0	1082.0	998.1	943.0	904.2	875.4	847.8	841.6
30°	2946.7	2126.4	1387.6	1139.6	1015.6	939.2	896.7	870.4	839.1	810.2	801.5
32.5°	3180.9	2177.8	1335.0	1072.0	956.8	887.9	864.1	844.1	807.7	777.7	771.4
35°	3448.9	2220.4	1268.6	1001.9	899.2	855.3	850.3	824.0	776.4	741.4	733.9
37.5°	3759.4	2261.7	1189.7	933.0	856.6	840.3	841.6	796.5	738.9	696.3	691.3
40°	4093.8	2303.0	1102.0	872.9	817.8	831.5	820.3	756.4	662.5	621.1	616.1
42.5°	4442.0	2348.1	1013.1	816.5	785.2	797.7	781.4	676.2	608.6	587.3	584.8
45°	4756.3	2401.9	916.7	760.2	752.6	748.9	721.3	612.4	583.6	568.6	567.3
47.5°	4983.0	2393.2	814.0	706.3	717.6	705.1	621.1	582.3	558.5	538.5	533.5
50°	4941.6	2240.4	707.6	646.2	672.5	661.2	558.5	547.3	526.0	504.7	497.2
52.5°	4836.4	2032.5	614.9	582.3	623.7	597.4	516.0	504.7	485.9	458.3	449.6
55°	4892.8	1837.1	542.3	531.0	573.6	494.7	468.4	450.8	430.8	400.7	397.0
57.5°	4711.2	1499.0	435.8	443.3	507.2	422.0	410.8	383.2	349.4	329.4	326.9
60°	3261.0	805.2	273.0	281.8	366.9	354.4	368.2	343.1	301.8	283.0	279.3
62.5°	1497.8	323.1	149.0	142.8	192.9	240.4	315.6	313.1	261.7	231.7	229.2
65°	363.2	147.8	106.4	100.2	109.0	144.0	205.4	246.7	211.6	176.6	172.8
67.5°	117.7	120.2	97.7	91.4	96.4	107.7	122.7	136.5	135.2	124.0	121.5
70°	93.9	109.0	90.2	82.7	82.7	86.4	82.7	66.4	57.6	62.6	65.1
72.5°	70.1	82.7	71.4	63.9	61.4	60.1	51.3	37.6	26.3	23.8	22.5
75°	41.3	46.3	43.8	37.6	35.1	31.3	25.0	16.3	8.8	6.3	3.8
77.5°	7.5	8.8	10.0	7.5	6.3	5.0	3.8	1.3	0.0	0.0	0.0
80°	0.0	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)