

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: P632552

Luminaire Tested: GWS-SA2C-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632552
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-SA2C-830-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4928.6 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

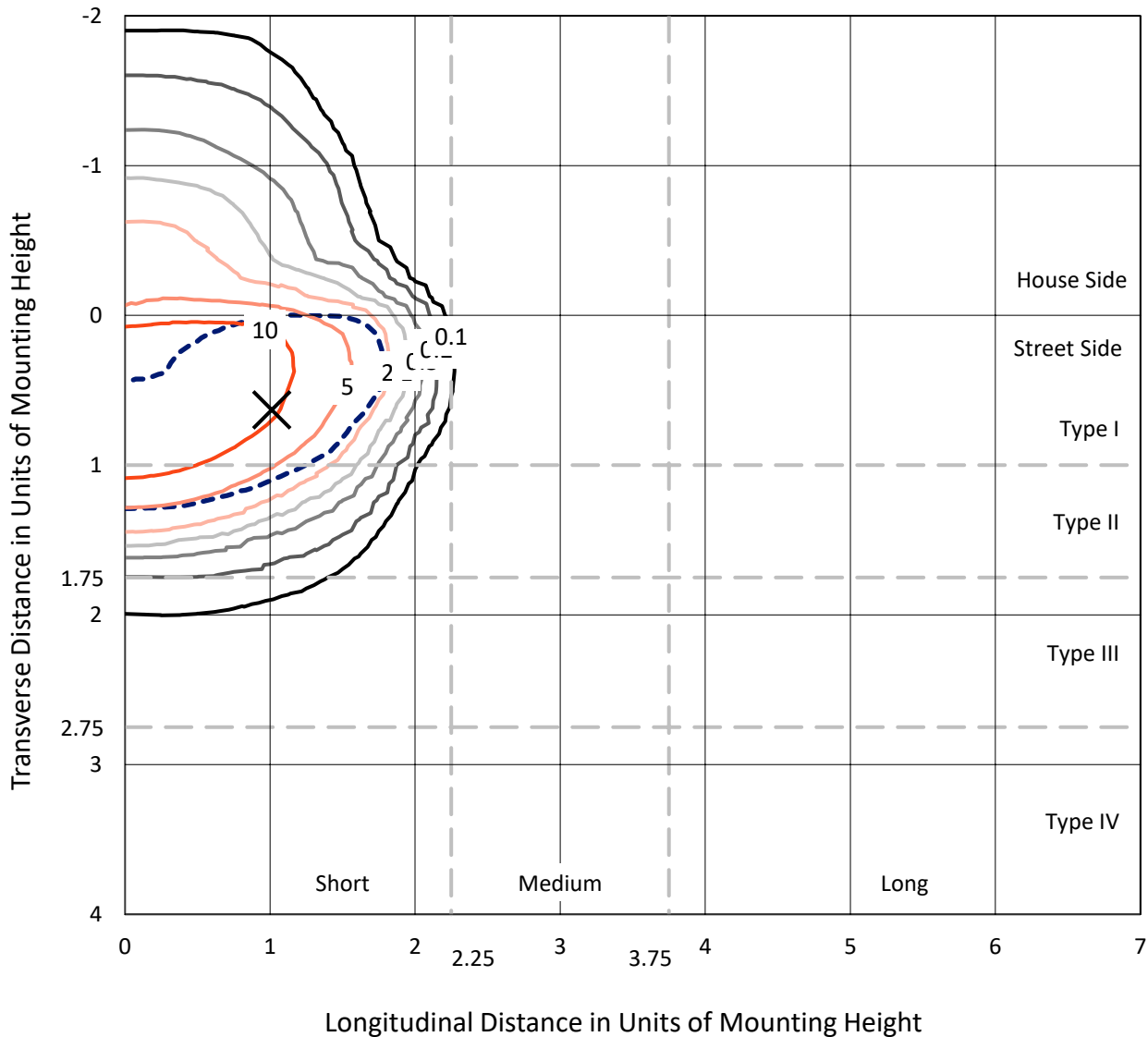
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P632552
 CATALOG NUMBER: GWS-SA2C-830-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

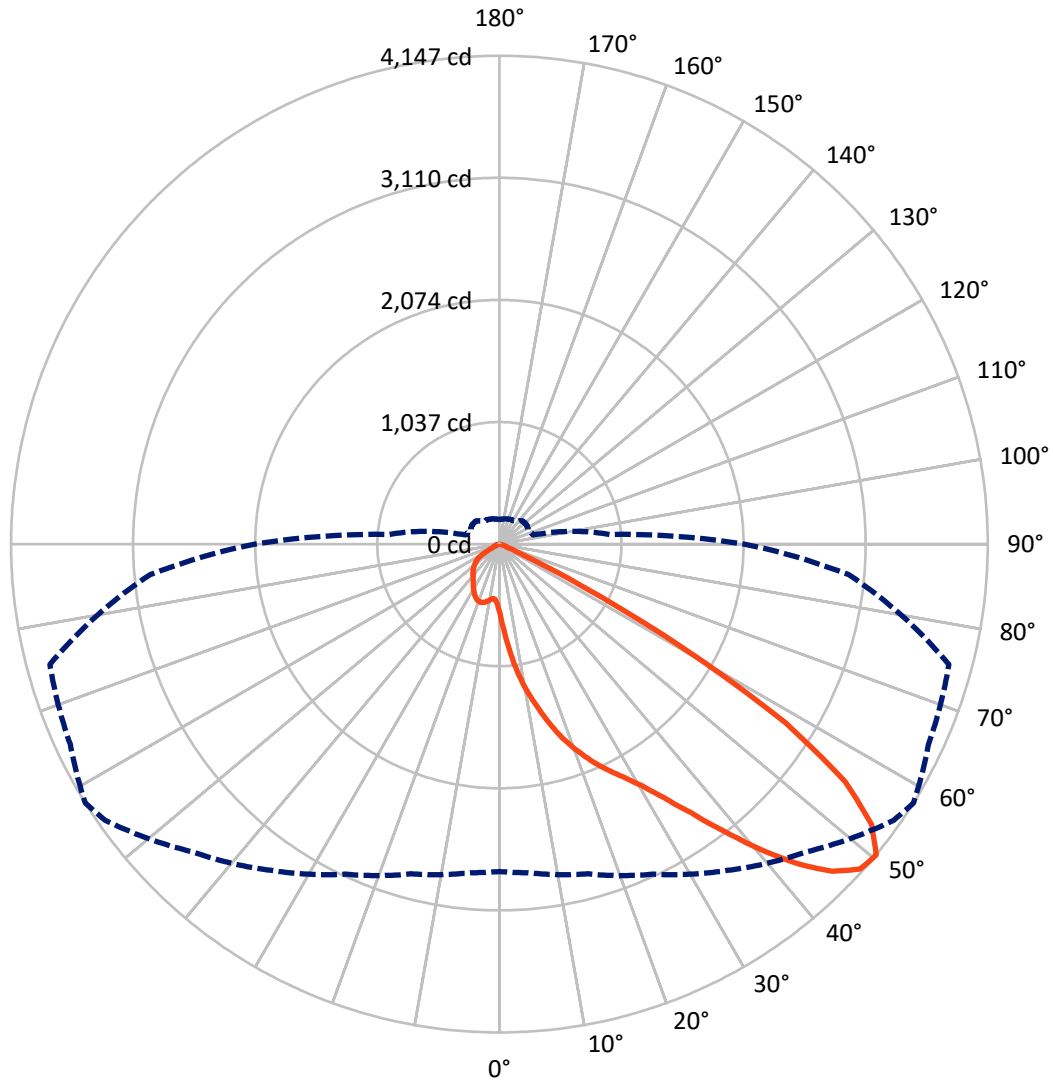
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - N/A

REPORT NUMBER: P632552
CATALOG NUMBER: GWS-SA2C-830-U-T2R-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P632552

CATALOG NUMBER: GWS-SA2C-830-U-T2R-W-GRSBK

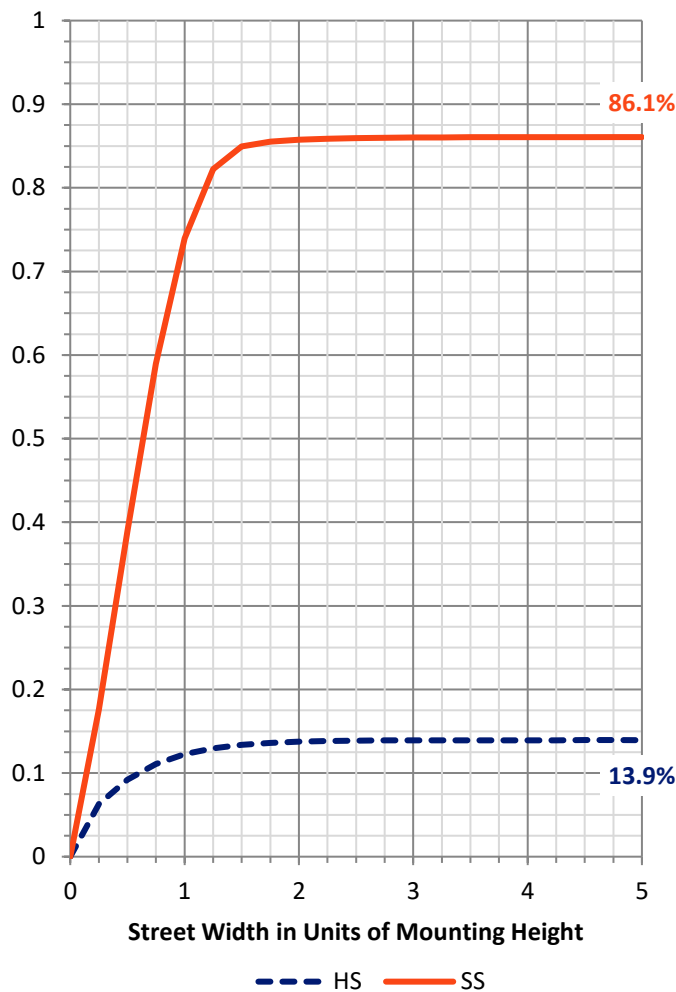
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	690.3	0.0	690.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4238.3	0.0	4238.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	4928.6	0.0	4928.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	1.5
10°-20°	288.7	5.9
20°-30°	584.2	11.9
30°-40°	1033.6	21.0
40°-50°	1506.7	30.6
50°-60°	1207.7	24.5
60°-70°	217.6	4.4
70°-80°	17.1	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°	4928.6	100.0
0°-180°	4928.6	100.0

Coefficient of Utilization



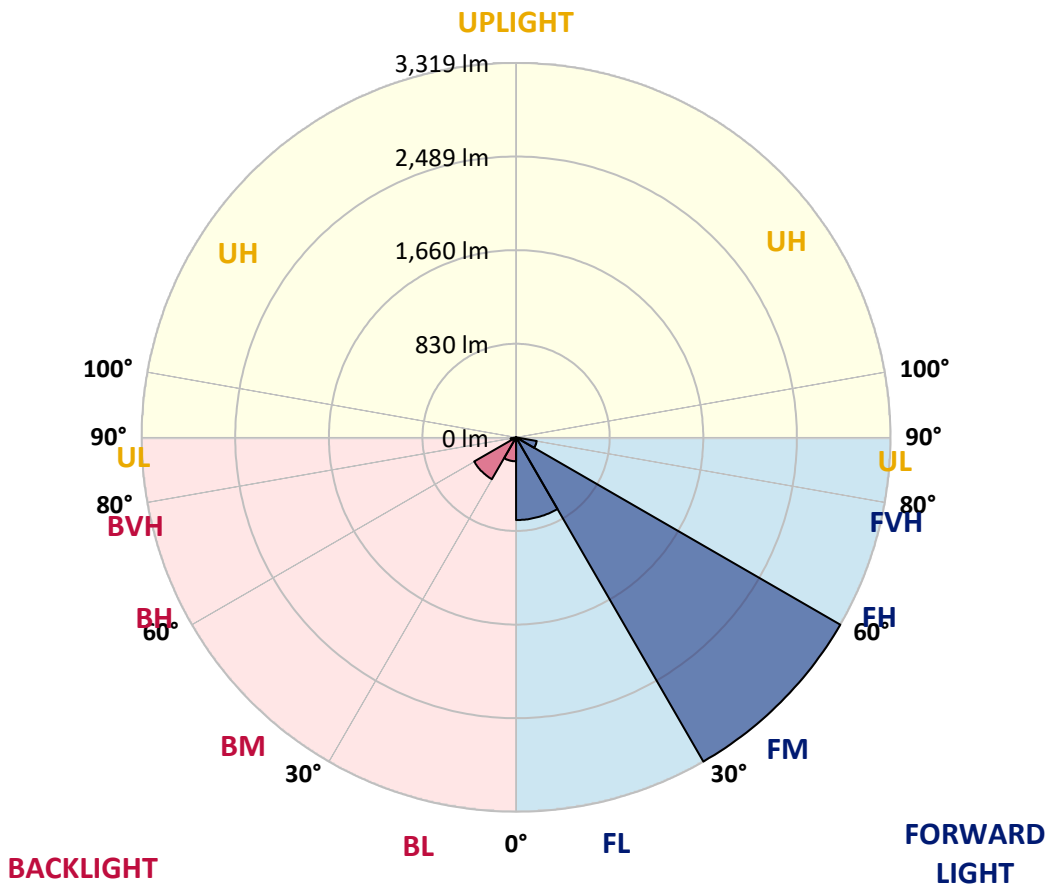
REPORT NUMBER: P632552

CATALOG NUMBER: GWS-SA2C-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°)	733.4	14.9			
FM (30°-60°)	3319.3	67.3			
FH (60°-80°)	185.7	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	212.5	4.3	B1/500		
BM (30°-60°)	428.7	8.7	B1/1000		
BH (60°-80°)	49.1	1.0	B0/110		G0/110
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: B1-U0-G0
 Type II Short





REPORT NUMBER: P632552

CATALOG NUMBER: GWS-SA2C-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7
2.5°	871.2	857.5	849.6	843.3	815.3	771.1	742.1	726.8	701.5	658.8	621.9
5°	1136.8	1126.8	1108.4	1095.7	1059.9	997.2	932.3	906.5	849.1	752.6	666.2
7.5°	1312.9	1305.5	1298.6	1281.8	1248.1	1191.1	1119.5	1092.6	1004.0	867.0	725.2
10°	1448.3	1442.5	1434.6	1434.1	1407.7	1356.6	1286.5	1258.6	1162.7	991.4	794.8
12.5°	1567.4	1562.7	1561.1	1575.9	1559.0	1521.1	1445.2	1410.4	1308.7	1118.4	871.7
15°	1649.1	1648.1	1654.9	1683.9	1693.4	1676.0	1612.2	1574.8	1457.8	1245.9	956.6
17.5°	1686.6	1689.7	1702.9	1753.0	1795.1	1809.9	1760.9	1729.2	1605.9	1375.1	1047.2
20°	1750.3	1749.3	1757.2	1804.6	1856.3	1909.0	1894.2	1867.3	1755.6	1511.6	1147.9
22.5°	1930.1	1914.8	1897.9	1905.3	1923.7	1985.4	2012.8	1999.1	1910.0	1651.8	1251.7
25°	2206.2	2190.4	2136.1	2083.4	2048.6	2076.6	2114.0	2120.8	2063.4	1795.7	1360.3
27.5°	2499.3	2485.0	2423.9	2344.8	2245.2	2196.7	2224.7	2238.4	2214.1	1966.9	1475.7
30°	2773.9	2754.9	2687.9	2589.9	2474.5	2400.2	2368.6	2378.0	2392.3	2169.9	1611.2
32.5°	3012.1	2997.8	2917.7	2814.4	2703.2	2625.8	2552.0	2567.8	2602.6	2418.1	1784.6
35°	3213.9	3206.6	3121.7	3018.9	2901.4	2861.9	2798.6	2801.8	2836.6	2718.0	1995.9
37.5°	3389.4	3376.8	3299.8	3204.5	3111.2	3104.8	3087.4	3089.0	3106.9	3067.4	2238.9
40°	3500.1	3488.5	3433.7	3374.7	3308.3	3309.3	3399.5	3406.3	3385.8	3410.5	2495.6
42.5°	3541.8	3533.3	3503.8	3504.3	3497.5	3528.6	3697.8	3710.4	3636.6	3679.9	2714.8
45°	3469.6	3465.9	3468.0	3543.9	3626.1	3722.0	3941.8	3963.9	3859.6	3858.5	2886.1
47.5°	3236.6	3229.2	3290.9	3420.0	3610.3	3796.9	4089.4	4123.6	4015.6	3960.8	2993.6
50°	2780.2	2801.3	2898.8	3092.7	3382.1	3694.1	4087.8	4147.3	4021.4	3951.8	2975.7
52.5°	2013.9	2009.6	2223.1	2489.8	2841.8	3365.2	3870.6	3957.6	3880.7	3863.8	2935.7
55°	1095.7	1134.2	1278.1	1631.2	2070.8	2742.8	3374.7	3564.4	3653.5	3831.6	3007.9
57.5°	402.7	419.5	509.7	759.5	1096.3	1705.5	2577.8	2864.0	3139.1	3742.0	2995.7
60°	162.3	165.5	201.3	279.3	460.6	868.0	1546.4	1800.4	2059.7	2864.5	2299.0
62.5°	118.1	122.3	136.5	163.4	233.0	379.5	666.7	775.3	847.5	1418.8	1132.6
65°	95.4	98.6	110.2	122.3	153.9	204.0	215.0	207.1	206.1	366.8	259.8
67.5°	79.1	82.2	90.7	99.1	110.7	101.7	73.8	77.5	63.2	62.7	51.1
70°	58.0	61.7	70.1	79.1	66.4	27.4	42.7	63.2	48.0	40.1	39.0
72.5°	43.7	46.4	54.3	51.7	19.5	10.5	28.5	45.9	36.9	29.5	29.0
75°	32.7	34.3	27.4	8.4	2.1	2.6	10.5	19.0	20.6	16.9	16.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.6	2.1	2.6	3.2
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: P632552
 CATALOG NUMBER: GWS-SA2C-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7
2.5°	600.8	578.7	547.1	520.7	500.7	481.2	466.4	451.7	451.2	443.8	442.2
5°	626.1	586.1	528.1	486.5	461.2	445.9	435.3	430.1	427.4	424.8	423.7
7.5°	662.5	605.1	524.9	480.7	459.6	449.6	442.2	439.0	437.4	435.3	434.8
10°	707.3	632.5	536.5	491.7	473.3	463.8	455.9	451.2	448.5	444.8	443.8
12.5°	761.1	666.2	555.0	510.2	490.7	478.0	467.5	460.6	457.0	452.2	451.2
15°	819.0	702.6	575.5	527.0	503.9	487.5	474.3	463.8	457.0	451.2	449.6
17.5°	879.1	739.4	594.0	538.6	510.2	490.7	471.7	457.5	449.0	441.7	439.6
20°	946.6	777.4	606.1	540.8	508.1	482.2	460.1	442.2	433.8	423.7	421.6
22.5°	1017.2	812.7	611.4	536.0	496.5	466.4	442.7	424.3	412.2	401.6	398.4
25°	1085.7	844.3	608.7	522.8	479.1	444.3	420.1	401.1	387.9	377.4	374.7
27.5°	1158.5	870.7	599.3	503.3	455.4	420.1	396.9	380.5	368.4	356.8	354.2
30°	1240.1	894.9	584.0	479.6	427.4	395.3	377.4	366.3	353.1	341.0	337.3
32.5°	1338.7	916.5	561.8	451.2	402.7	373.7	363.7	355.2	339.9	327.3	324.7
35°	1451.5	934.5	533.9	421.6	378.4	360.0	357.9	346.8	326.8	312.0	308.9
37.5°	1582.2	951.8	500.7	392.7	360.5	353.6	354.2	335.2	311.0	293.0	290.9
40°	1722.9	969.2	463.8	367.4	344.2	350.0	345.2	318.3	278.8	261.4	259.3
42.5°	1869.4	988.2	426.4	343.6	330.5	335.7	328.9	284.6	256.1	247.2	246.1
45°	2001.7	1010.9	385.8	319.9	316.8	315.2	303.6	257.7	245.6	239.3	238.8
47.5°	2097.1	1007.2	342.6	297.3	302.0	296.7	261.4	245.1	235.1	226.6	224.5
50°	2079.7	942.9	297.8	272.0	283.0	278.3	235.1	230.3	221.4	212.4	209.2
52.5°	2035.5	855.4	258.8	245.1	262.5	251.4	217.1	212.4	204.5	192.9	189.2
55°	2059.2	773.2	228.2	223.5	241.4	208.2	197.1	189.7	181.3	168.7	167.1
57.5°	1982.8	630.9	183.4	186.6	213.5	177.6	172.9	161.3	147.0	138.6	137.6
60°	1372.4	338.9	114.9	118.6	154.4	149.2	155.0	144.4	127.0	119.1	117.5
62.5°	630.3	136.0	62.7	60.1	81.2	101.2	132.8	131.8	110.2	97.5	96.4
65°	152.8	62.2	44.8	42.2	45.9	60.6	86.4	103.8	89.1	74.3	72.7
67.5°	49.5	50.6	41.1	38.5	40.6	45.3	51.7	57.4	56.9	52.2	51.1
70°	39.5	45.9	37.9	34.8	34.8	36.4	34.8	27.9	24.2	26.4	27.4
72.5°	29.5	34.8	30.0	26.9	25.8	25.3	21.6	15.8	11.1	10.0	9.5
75°	17.4	19.5	18.4	15.8	14.8	13.2	10.5	6.9	3.7	2.6	1.6
77.5°	3.2	3.7	4.2	3.2	2.6	2.1	1.6	0.5	0.0	0.0	0.0
80°	0.0	0.5	0.5	0.5	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)