

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: P639467

Luminaire Tested: GWS-SA5B-830-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-830-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11113.5 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

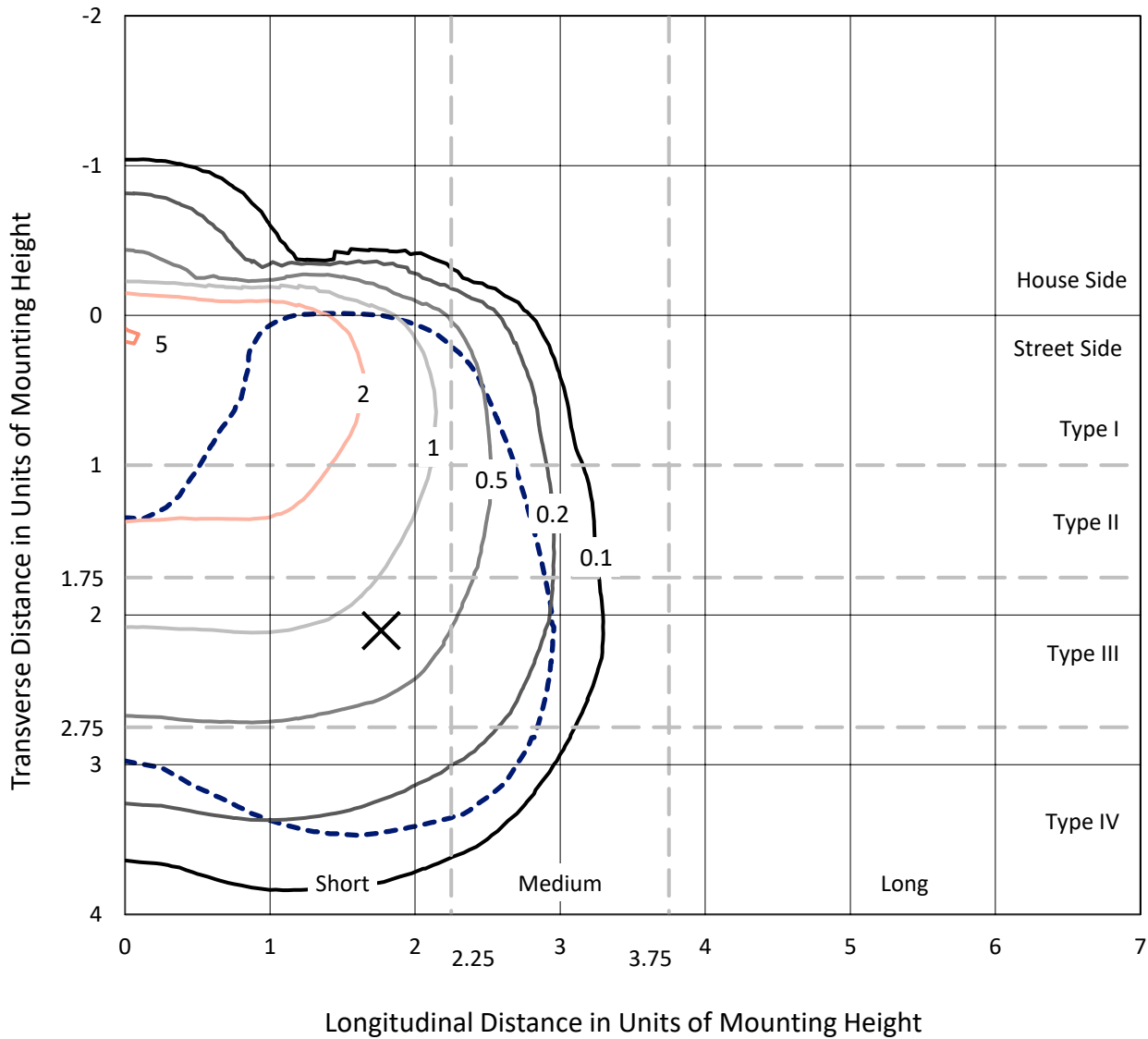
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639467
 CATALOG NUMBER: GWS-SA5B-830-U-SL4-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

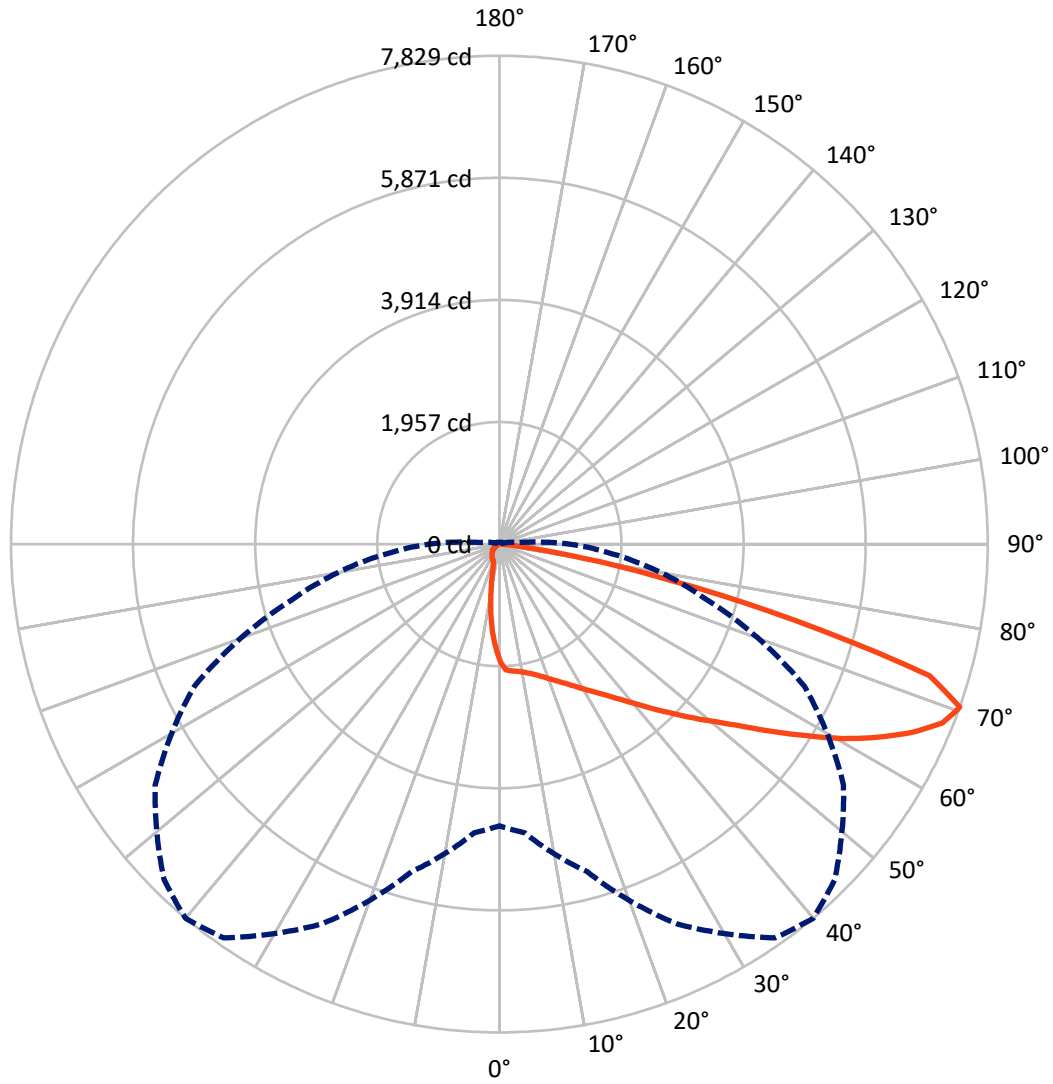
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P639467
CATALOG NUMBER: GWS-SA5B-830-U-SL4-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P639467
 CATALOG NUMBER: GWS-SA5B-830-U-SL4-W-HSS

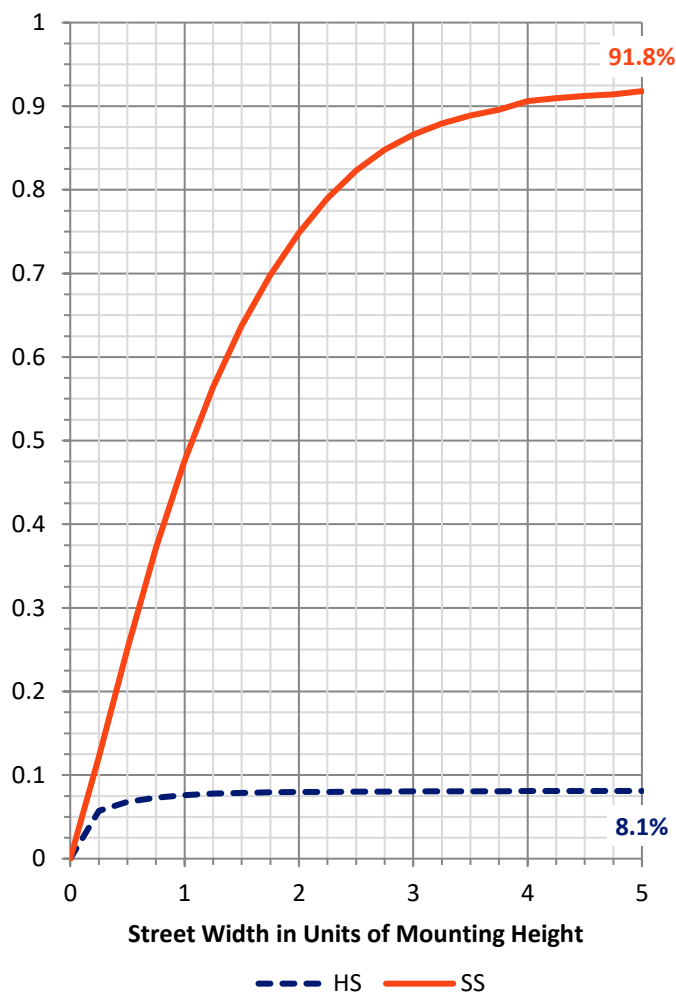
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	908.8	0.0	908.8
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	10204.7	0.0	10204.7
	% Fixture	91.8	0.0	91.8
Total	Lumens	11113.5	0.0	11113.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	1.4
10°-20°	404.3	3.6
20°-30°	676.6	6.1
30°-40°	1062.7	9.6
40°-50°	1680.9	15.1
50°-60°	2452.0	22.1
60°-70°	3039.6	27.4
70°-80°	1537.8	13.8
80°-90°	100.4	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°	11113.5	100.0
0°-180°	11113.5	100.0

Coefficient of Utilization



REPORT NUMBER: P639467

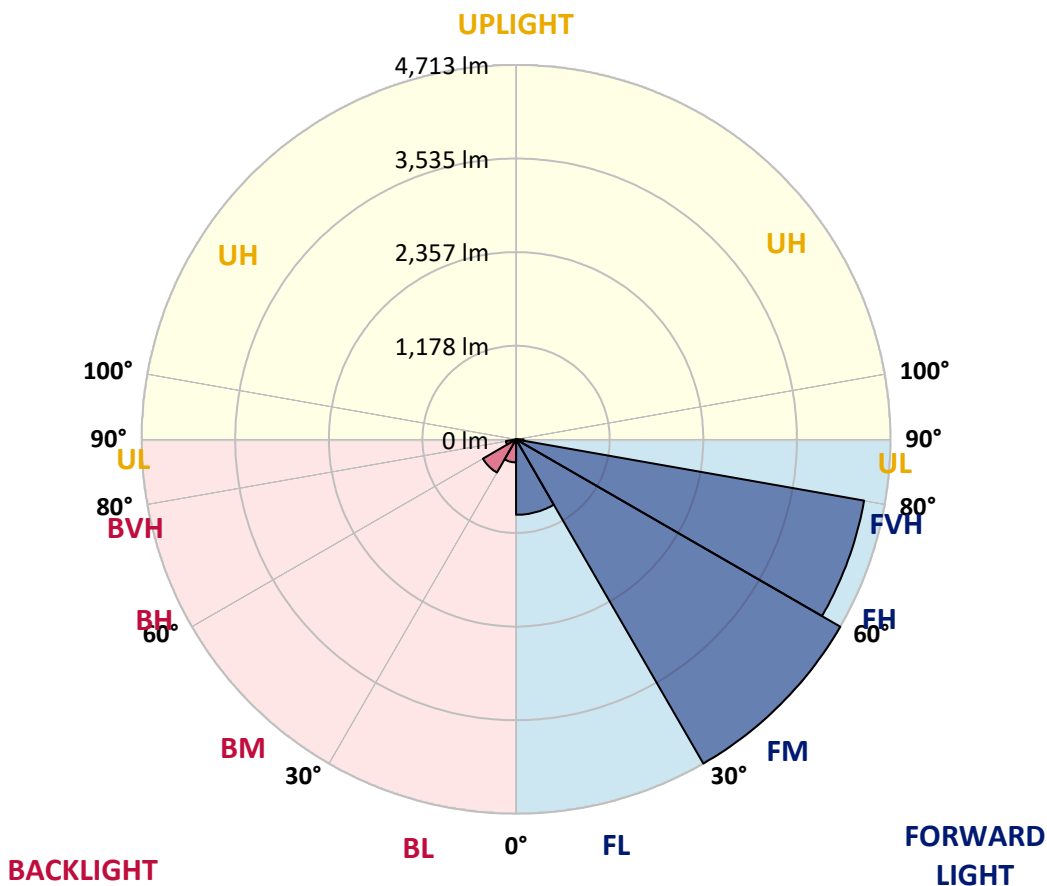
CATALOG NUMBER: GWS-SA5B-830-U-SL4-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	950.0	8.5			
FM (30°-60°)	4713.1	42.4			
FH (60°-80°)	4447.8	40.0			G2/5000
FVH (80°-90°)	93.8	0.8			G1/100
BL (0°-30°)	290.2	2.6	B1/500		
BM (30°-60°)	482.4	4.3	B1/1000		
BH (60°-80°)	129.6	1.2	B1/500		G1/500
BVH (80°-90°)	6.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P639467

CATALOG NUMBER: GWS-SA5B-830-U-SL4-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8
2.5°	2027.4	2034.5	2033.5	2036.5	2029.4	2018.3	2016.3	2001.1	1973.8	1939.4	1901.0
5°	2068.8	2076.9	2070.9	2067.8	2054.7	2042.6	2039.5	2023.3	1992.0	1945.5	1878.7
7.5°	2104.2	2106.3	2102.2	2095.1	2075.9	2059.7	2048.6	2026.4	1989.0	1942.5	1865.6
10°	2110.3	2109.3	2111.3	2112.3	2100.2	2086.0	2076.9	2046.6	1999.1	1949.5	1866.6
12.5°	2103.2	2103.2	2116.4	2131.5	2131.5	2124.5	2115.4	2088.1	2032.4	1973.8	1886.8
15°	2112.3	2115.4	2140.6	2169.0	2178.1	2171.0	2166.9	2138.6	2081.0	2016.3	1923.2
17.5°	2144.7	2147.7	2188.2	2230.6	2241.8	2233.7	2225.6	2197.3	2135.6	2064.8	1964.7
20°	2192.2	2200.3	2251.9	2306.5	2316.6	2306.5	2290.3	2250.9	2189.2	2117.4	2004.1
22.5°	2279.2	2284.2	2339.8	2397.5	2402.5	2386.4	2362.1	2307.5	2242.8	2173.0	2048.6
25°	2394.4	2401.5	2457.1	2512.8	2499.6	2475.3	2442.0	2380.3	2306.5	2238.7	2105.3
27.5°	2532.0	2540.1	2594.7	2643.2	2608.8	2580.5	2543.1	2466.2	2391.4	2329.7	2178.1
30°	2680.6	2687.7	2736.2	2779.7	2734.2	2700.8	2656.3	2577.5	2501.6	2455.1	2281.2
32.5°	2824.2	2823.2	2869.7	2905.1	2858.6	2832.3	2791.8	2712.0	2651.3	2631.1	2434.9
35°	2957.7	2957.7	2996.1	3031.5	2998.1	2984.0	2946.5	2882.8	2848.5	2872.7	2640.2
37.5°	3092.2	3085.1	3121.5	3160.9	3157.9	3158.9	3137.7	3107.3	3109.3	3195.3	2922.3
40°	3203.4	3200.3	3242.8	3294.4	3334.8	3367.2	3354.0	3365.2	3428.9	3589.6	3283.3
42.5°	3292.4	3299.4	3354.0	3435.9	3538.1	3603.8	3612.9	3658.4	3822.2	4071.0	3690.8
45°	3394.5	3395.5	3471.3	3596.7	3759.5	3863.7	3900.1	4017.4	4249.9	4570.5	4137.7
47.5°	3519.9	3507.7	3592.7	3768.6	4004.2	4157.9	4222.6	4369.3	4729.2	5057.9	4501.7
50°	3658.4	3636.2	3732.2	3971.9	4278.3	4470.4	4601.8	4816.2	5204.5	5458.3	4772.7
52.5°	3819.2	3797.9	3907.2	4205.4	4606.9	4840.5	5009.3	5225.7	5612.0	5763.7	4934.5
55°	4023.4	4002.2	4117.5	4485.5	4995.2	5298.5	5475.5	5657.5	5991.2	5989.1	5051.8
57.5°	4249.9	4220.6	4380.4	4839.4	5479.5	5795.0	5975.0	6064.0	6279.4	6164.1	5130.7
60°	4509.8	4483.5	4705.0	5261.1	6038.7	6330.9	6444.2	6407.8	6516.0	6267.2	5103.4
62.5°	4744.4	4732.3	5007.3	5708.0	6571.6	6818.3	6849.6	6690.9	6689.9	6269.2	4919.3
65°	4988.1	5011.3	5419.9	6222.7	7107.5	7273.3	7219.7	6972.0	6759.7	6021.5	4375.3
67.5°	5079.1	5146.8	5691.9	6687.9	7530.2	7659.6	7565.6	7112.6	6469.5	5188.3	3331.8
70°	4516.9	4644.3	5435.0	6714.2	7705.1	7828.5	7603.0	6734.4	5393.6	3437.0	1825.2
72.5°	3434.9	3583.6	4529.0	5497.7	6929.5	7210.6	6825.4	5486.6	3476.4	1505.6	612.8
75°	1922.2	2083.0	3373.3	4139.7	4652.4	4909.2	4767.7	3519.9	1540.0	393.3	183.0
77.5°	650.2	703.8	1569.3	2561.3	3070.9	2840.4	2404.6	1748.3	566.3	149.7	97.1
80°	385.3	405.5	584.5	1275.1	1615.8	1339.8	1057.7	646.1	288.2	79.9	67.7
82.5°	115.3	136.5	322.6	473.2	633.0	394.4	333.7	369.1	149.7	43.5	56.6
85°	0.0	0.0	68.8	146.6	165.8	64.7	64.7	209.3	27.3	18.2	41.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.1	3.0	4.0	9.1
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: P639467

CATALOG NUMBER: GWS-SA5B-830-U-SL4-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8
2.5°	1873.7	1838.3	1796.8	1757.4	1720.0	1671.5	1648.2	1619.9	1595.6	1582.5	1589.6
5°	1836.3	1780.7	1695.7	1609.8	1522.8	1440.9	1367.1	1317.6	1273.1	1249.8	1254.9
7.5°	1803.9	1729.1	1596.6	1456.1	1316.5	1176.0	1061.7	972.7	904.0	875.7	870.6
10°	1789.8	1695.7	1508.7	1306.4	1092.1	903.0	741.2	643.1	573.3	539.0	545.0
12.5°	1796.8	1678.5	1433.8	1159.8	881.7	661.3	506.6	414.6	365.0	344.8	339.8
15°	1817.1	1674.5	1367.1	1010.2	680.5	462.1	349.9	312.5	302.3	300.3	300.3
17.5°	1840.3	1675.5	1298.3	858.5	516.7	342.8	299.3	292.2	289.2	287.2	288.2
20°	1863.6	1675.5	1219.5	704.8	388.3	296.3	285.1	280.1	277.1	276.0	276.0
22.5°	1891.9	1675.5	1131.5	562.2	311.4	281.1	272.0	269.0	265.9	264.9	263.9
25°	1926.3	1676.5	1034.4	439.9	283.1	268.0	260.9	257.8	254.8	252.8	252.8
27.5°	1975.8	1684.6	927.2	342.8	266.9	255.8	249.8	246.7	243.7	240.7	240.7
30°	2047.6	1704.8	806.9	283.1	251.8	242.7	236.6	234.6	231.6	228.5	227.5
32.5°	2154.8	1740.2	682.5	253.8	237.6	228.5	221.4	219.4	216.4	213.4	212.3
35°	2304.5	1804.9	561.2	235.6	219.4	210.3	206.3	205.3	201.2	198.2	198.2
37.5°	2523.9	1910.1	444.9	217.4	204.3	197.2	192.1	190.1	186.1	183.0	182.0
40°	2791.8	2046.6	345.8	203.2	190.1	183.0	178.0	174.9	169.9	165.8	163.8
42.5°	3133.6	2213.4	273.0	188.1	177.0	169.9	165.8	159.8	152.7	146.6	145.6
45°	3489.5	2385.3	225.5	173.9	164.8	158.8	153.7	145.6	135.5	128.4	126.4
47.5°	3762.6	2492.5	197.2	158.8	151.7	146.6	140.6	130.4	118.3	110.2	108.2
50°	3957.7	2508.7	175.9	144.6	140.6	135.5	126.4	114.3	101.1	93.0	91.0
52.5°	4053.8	2435.9	158.8	131.5	128.4	123.4	112.2	99.1	84.9	76.8	74.8
55°	4097.3	2298.4	142.6	120.3	116.3	110.2	98.1	83.9	69.8	62.7	60.7
57.5°	4080.1	2095.1	128.4	109.2	104.2	97.1	83.9	68.8	57.6	50.6	49.5
60°	3952.7	1810.0	114.3	98.1	92.0	83.9	70.8	56.6	46.5	41.5	40.4
62.5°	3677.6	1456.1	100.1	84.9	80.9	72.8	60.7	46.5	38.4	35.4	34.4
65°	3114.4	1029.4	85.9	71.8	69.8	61.7	50.6	38.4	33.4	31.3	30.3
67.5°	2238.7	625.9	72.8	61.7	59.7	52.6	42.5	33.4	30.3	29.3	29.3
70°	1125.4	296.3	57.6	50.6	50.6	43.5	36.4	30.3	29.3	28.3	28.3
72.5°	382.2	126.4	43.5	39.4	41.5	37.4	31.3	28.3	28.3	28.3	28.3
75°	130.4	66.7	30.3	28.3	30.3	30.3	27.3	27.3	28.3	28.3	28.3
77.5°	84.9	44.5	21.2	19.2	23.3	23.3	23.3	25.3	27.3	27.3	27.3
80°	69.8	24.3	14.2	13.1	17.2	17.2	19.2	23.3	25.3	25.3	25.3
82.5°	59.7	15.2	8.1	9.1	12.1	13.1	16.2	19.2	22.2	23.3	23.3
85°	40.4	8.1	6.1	7.1	8.1	10.1	13.1	16.2	18.2	20.2	20.2
87.5°	11.1	3.0	4.0	5.1	5.1	7.1	10.1	12.1	14.2	15.2	15.2
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)