

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: P636984

Luminaire Tested: GWS-SA4B-830-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-830-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6751.6 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

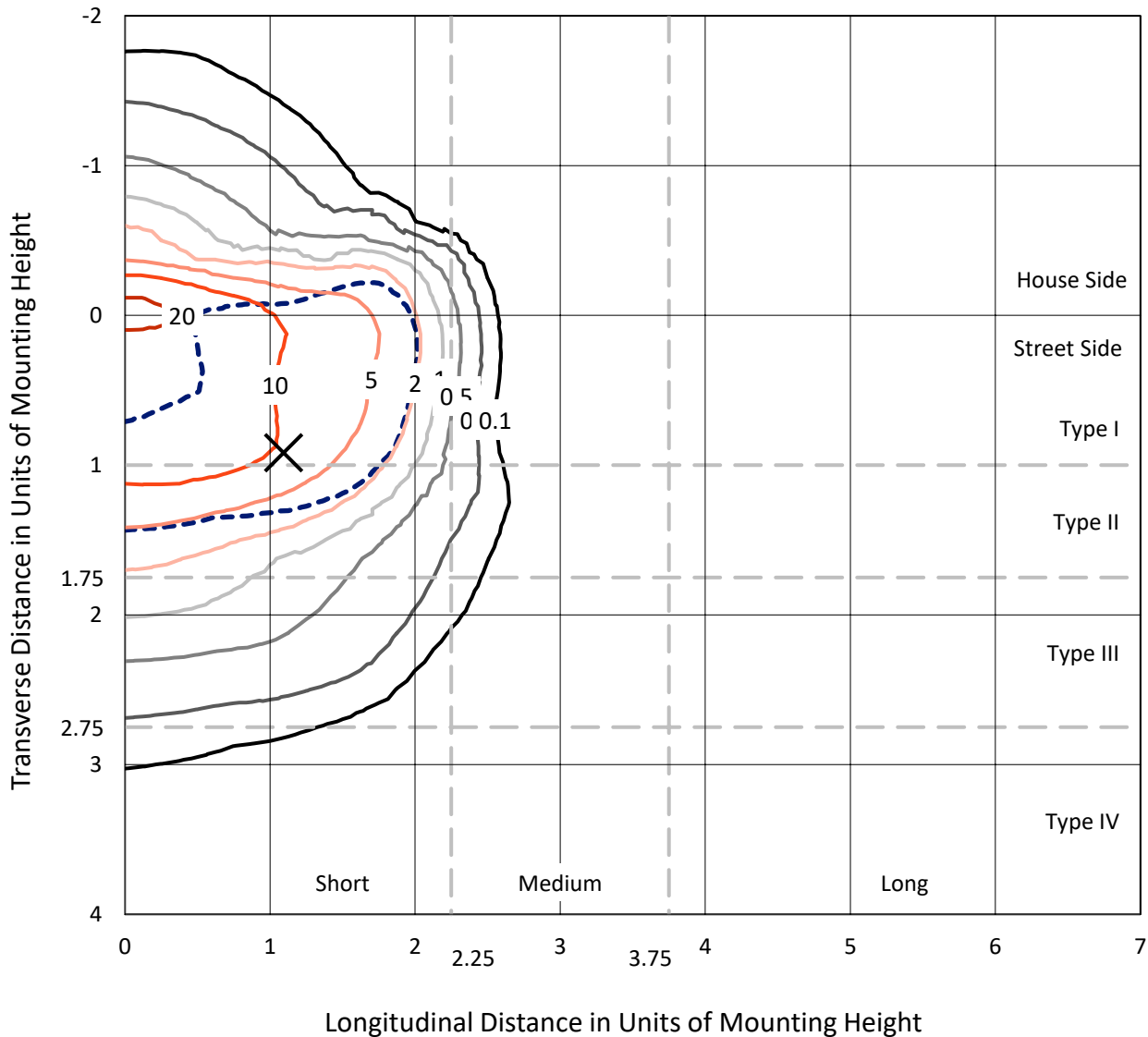
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

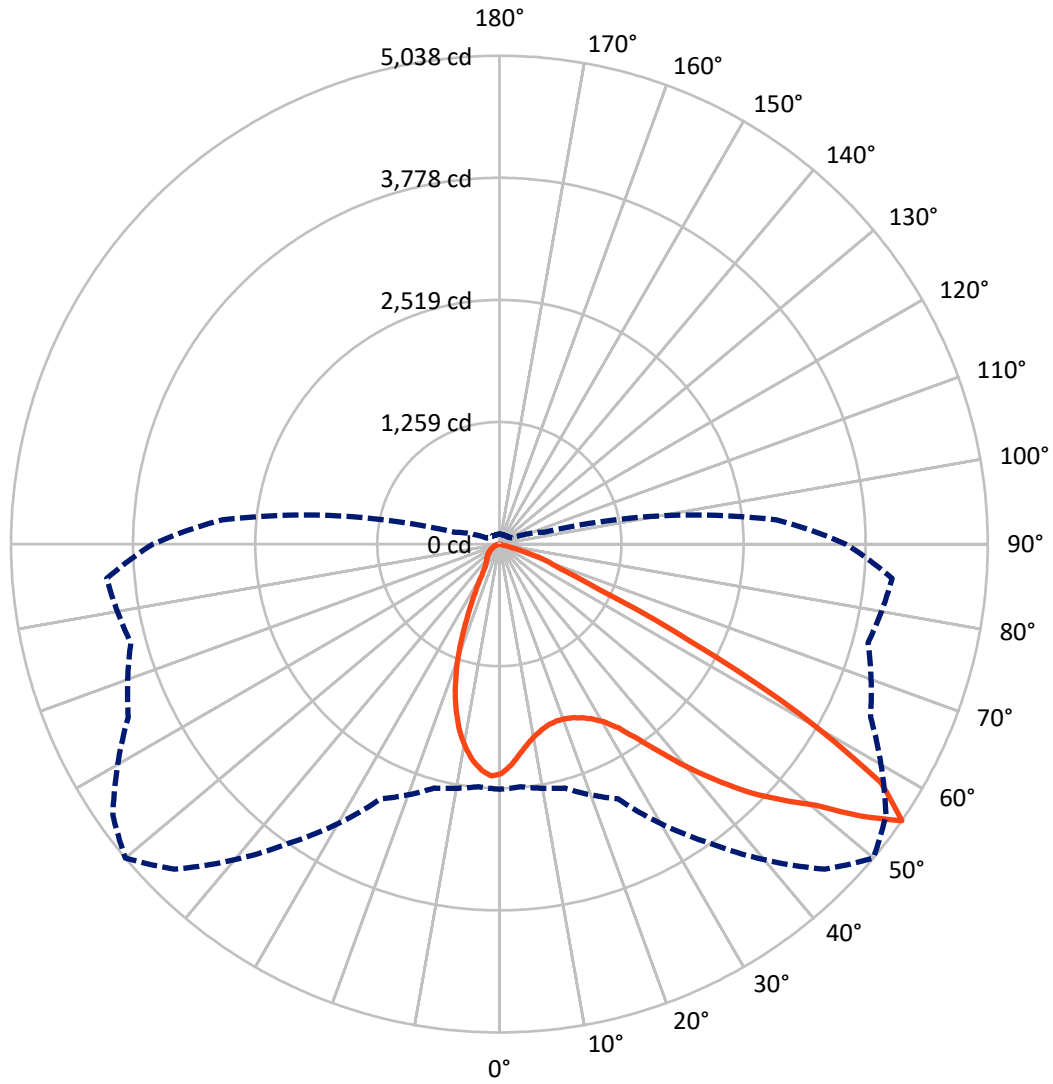
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical



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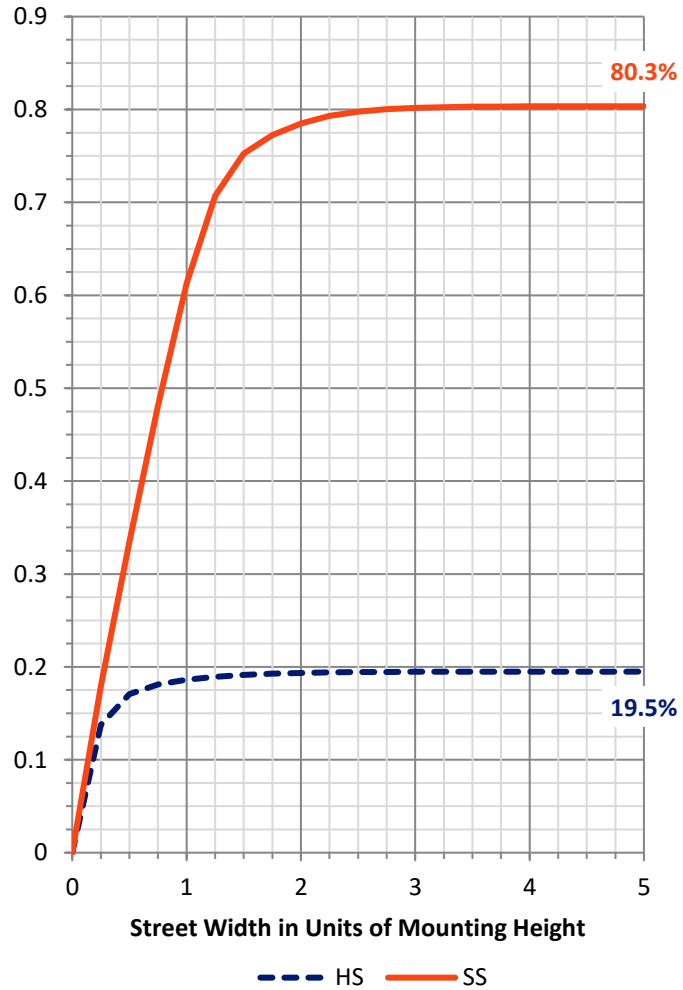
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1330.4	0.0	1330.4
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	5421.2	0.0	5421.2
	% Fixture	80.3	0.0	80.3
Total	Lumens	6751.6	0.0	6751.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.0	3.1
10°-20°	511.9	7.6
20°-30°	722.1	10.7
30°-40°	1068.6	15.8
40°-50°	1541.6	22.8
50°-60°	1818.4	26.9
60°-70°	811.2	12.0
70°-80°	69.7	1.0
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°	6751.6	100.0
0°-180°	6751.6	100.0

Coefficient of Utilization



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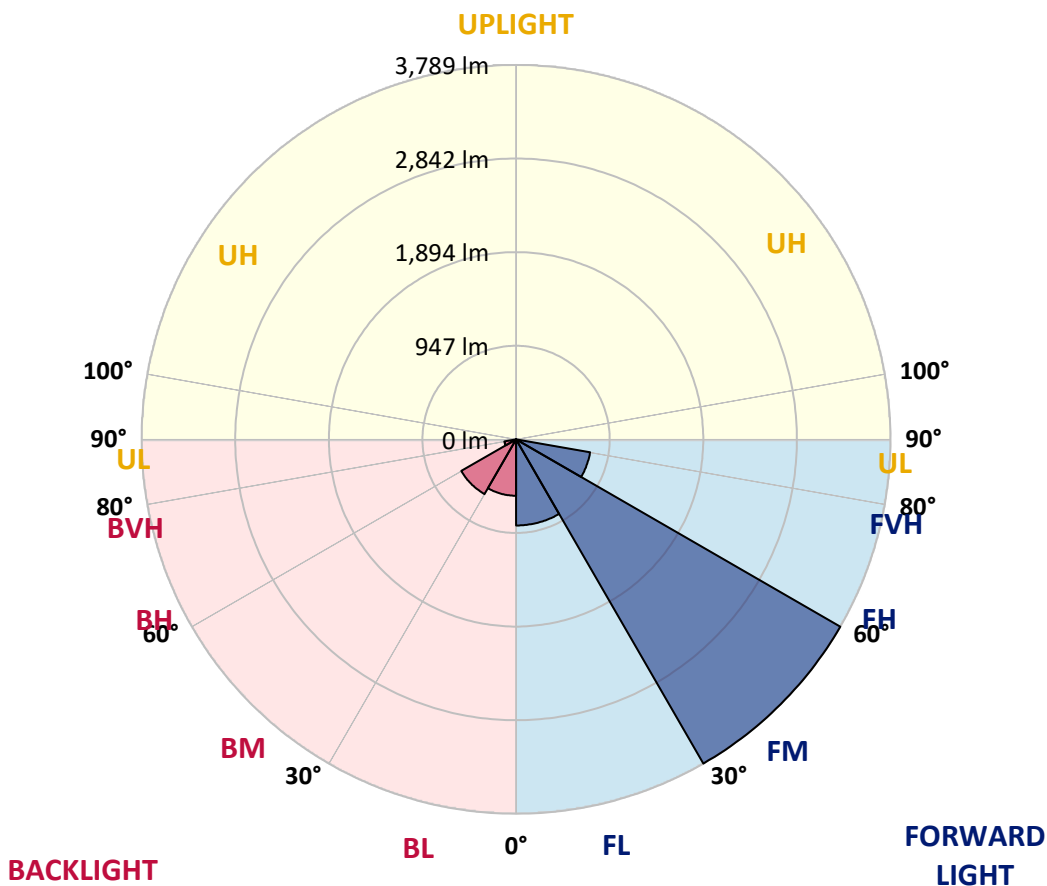
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	871.7	12.9			
FM (30°-60°)	3788.8	56.1			
FH (60°-80°)	760.8	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	570.4	8.4	B2/1000		
BM (30°-60°)	639.8	9.5	B1/1000		
BH (60°-80°)	120.1	1.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8
2.5°	2200.7	2202.3	2203.2	2225.4	2233.7	2266.6	2283.9	2293.0	2316.9	2344.9	2368.0
5°	2053.2	2050.7	2054.8	2082.8	2101.0	2149.6	2176.0	2194.1	2246.9	2312.8	2368.0
7.5°	1924.6	1929.5	1934.5	1965.0	1992.2	2044.9	2082.8	2110.0	2183.4	2281.5	2374.6
10°	1833.9	1833.9	1841.3	1875.9	1908.1	1973.2	2011.1	2045.7	2133.1	2253.4	2382.0
12.5°	1767.1	1768.0	1777.0	1816.6	1853.7	1921.3	1960.8	1994.6	2091.1	2225.4	2383.7
15°	1735.8	1733.4	1740.8	1782.8	1824.0	1887.5	1928.7	1961.7	2061.4	2209.8	2391.9
17.5°	1727.6	1725.9	1731.7	1772.9	1815.0	1876.8	1917.2	1950.1	2057.3	2214.7	2416.6
20°	1751.5	1748.2	1745.7	1781.2	1820.7	1881.7	1923.8	1960.8	2077.1	2241.9	2454.6
22.5°	1808.4	1808.4	1802.6	1819.9	1846.3	1901.5	1945.2	1993.8	2129.0	2296.3	2510.6
25°	1913.0	1904.8	1894.1	1901.5	1898.2	1932.8	1984.7	2052.3	2227.1	2386.1	2579.0
27.5°	2032.6	2040.0	2021.8	2022.7	1993.8	1981.4	2041.6	2143.8	2373.0	2513.1	2680.4
30°	2194.9	2189.2	2190.0	2187.5	2120.7	2062.2	2127.3	2263.3	2556.8	2706.8	2812.3
32.5°	2321.9	2330.1	2357.3	2373.0	2285.6	2191.6	2260.9	2425.7	2766.1	2927.7	2973.8
35°	2456.2	2471.0	2526.3	2577.4	2504.0	2396.0	2470.2	2640.8	2963.1	3146.1	3159.3
37.5°	2598.0	2627.6	2693.6	2783.4	2771.9	2676.3	2743.9	2893.9	3118.1	3278.0	3312.6
40°	2760.3	2789.2	2897.2	3026.6	3053.8	3032.3	3054.6	3142.0	3220.3	3283.7	3378.5
42.5°	2938.4	2977.9	3114.8	3287.9	3390.1	3409.0	3357.1	3348.0	3264.8	3217.8	3364.5
45°	3148.6	3194.7	3349.7	3573.9	3736.2	3761.8	3671.9	3555.7	3292.8	3169.2	3322.5
47.5°	3384.3	3428.0	3582.1	3851.6	4093.1	4103.0	3946.4	3759.3	3376.0	3225.2	3354.6
50°	3463.4	3490.6	3624.1	3940.6	4385.7	4461.6	4234.9	3988.4	3543.4	3390.1	3511.2
52.5°	3191.4	3202.1	3318.3	3638.2	4326.4	4813.5	4656.1	4330.5	3840.9	3641.4	3752.7
55°	2528.7	2511.4	2605.4	2898.8	3760.1	4741.8	5037.7	4867.9	4224.2	3936.5	4066.8
57.5°	1768.8	1748.2	1726.8	1925.4	2805.7	4019.8	4642.1	4942.9	4589.3	4229.1	4405.5
60°	1453.9	1434.2	1330.3	1238.8	1696.3	2886.5	3565.6	4131.9	4559.6	4214.3	4394.8
62.5°	1256.1	1244.6	1202.6	1078.1	998.1	1647.6	2232.8	2775.2	3498.9	3309.3	3319.2
65°	986.6	983.3	1012.2	1025.3	882.8	911.6	1139.1	1442.4	1891.6	1783.6	1691.3
67.5°	674.2	666.8	721.2	886.9	849.0	719.6	666.8	672.6	818.5	500.3	397.3
70°	428.6	411.3	412.1	549.8	690.7	567.9	514.3	452.5	407.2	74.2	84.1
72.5°	274.5	263.8	226.7	248.1	319.8	276.9	279.4	240.7	160.7	39.6	46.2
75°	115.4	106.3	81.6	65.1	64.3	40.4	35.4	33.0	22.3	22.3	23.9
77.5°	0.8	0.0	0.0	0.8	1.6	0.8	0.8	1.6	3.3	4.9	5.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8	2368.8
2.5°	2382.0	2362.2	2384.5	2392.7	2391.9	2392.7	2368.8	2352.4	2351.5	2330.9	2321.0
5°	2391.1	2375.4	2391.9	2381.2	2355.6	2323.5	2280.6	2243.6	2227.1	2203.2	2191.6
7.5°	2408.4	2391.9	2389.4	2346.6	2283.1	2215.5	2139.7	2072.1	2035.8	1992.2	1994.6
10°	2420.8	2401.8	2369.7	2282.3	2176.8	2068.8	1955.9	1855.3	1791.9	1733.4	1723.5
12.5°	2425.7	2397.7	2322.7	2190.8	2042.4	1901.5	1735.8	1592.4	1493.5	1416.9	1406.1
15°	2434.8	2389.4	2262.5	2080.4	1876.8	1677.3	1466.3	1270.1	1139.1	1050.9	1058.3
17.5°	2448.8	2380.4	2194.9	1956.7	1698.7	1416.9	1131.7	906.7	786.3	735.2	736.0
20°	2468.6	2369.7	2120.7	1820.7	1485.3	1122.6	791.3	621.5	587.7	586.0	583.6
22.5°	2494.9	2358.9	2041.6	1671.5	1232.2	786.3	526.7	473.9	487.9	515.1	520.1
25°	2526.3	2345.8	1953.4	1503.4	956.1	516.0	394.8	386.6	420.4	456.6	464.9
27.5°	2574.9	2339.2	1852.9	1312.2	670.9	370.1	323.1	328.0	358.5	389.0	396.5
30°	2657.3	2351.5	1743.2	1097.9	431.1	295.1	280.2	287.7	304.1	319.8	326.4
32.5°	2769.4	2387.8	1636.9	863.8	307.4	256.3	253.0	257.2	263.8	272.8	275.3
35°	2900.5	2450.4	1527.3	618.2	253.9	234.1	230.8	230.8	234.1	235.7	236.6
37.5°	3008.4	2516.4	1424.3	411.3	227.5	216.8	211.8	209.4	208.5	210.2	211.0
40°	3055.4	2543.6	1312.2	299.2	208.5	201.1	193.7	186.3	186.3	192.0	192.9
42.5°	3022.5	2513.1	1182.8	247.3	195.3	184.6	173.1	166.5	169.8	175.6	177.2
45°	2952.4	2438.1	1040.2	218.4	182.2	168.1	155.0	150.8	154.1	161.5	163.2
47.5°	2940.9	2388.6	869.6	199.5	168.1	154.1	140.1	136.0	140.1	145.9	147.5
50°	3055.4	2431.5	680.0	183.0	155.0	139.3	127.8	123.6	126.1	129.4	131.1
52.5°	3264.8	2590.6	548.9	167.3	139.3	124.5	117.0	112.1	112.1	115.4	116.2
55°	3573.9	2868.3	473.9	149.2	121.2	112.9	106.3	101.4	101.4	103.0	103.9
57.5°	3929.9	3204.6	491.2	125.3	106.3	102.2	96.4	92.3	94.0	94.0	94.0
60°	3880.5	3179.9	525.9	105.5	94.0	92.3	87.4	85.7	89.8	86.5	84.9
62.5°	2858.4	2196.6	275.3	86.5	80.8	79.1	75.8	79.1	84.9	75.8	72.5
65°	1388.0	1063.3	110.4	70.9	68.4	66.8	65.1	70.1	73.4	59.3	56.0
67.5°	326.4	265.4	71.7	60.2	56.9	53.6	55.2	56.0	53.6	40.4	38.7
70°	84.9	83.2	56.0	50.3	45.3	42.0	42.0	41.2	35.4	25.6	23.9
72.5°	46.2	45.3	40.4	37.9	31.3	28.0	28.8	25.6	19.8	14.8	14.0
75°	23.1	24.7	23.1	21.4	17.3	15.7	15.7	14.0	9.9	5.8	5.8
77.5°	4.9	5.8	5.8	4.9	4.1	3.3	3.3	4.1	1.6	0.0	0.0
80°	0.8	0.8	0.8	0.8	0.8	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)