

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: P636544

Luminaire Tested: GWS-SA4B-722-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636544
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-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6260.4 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

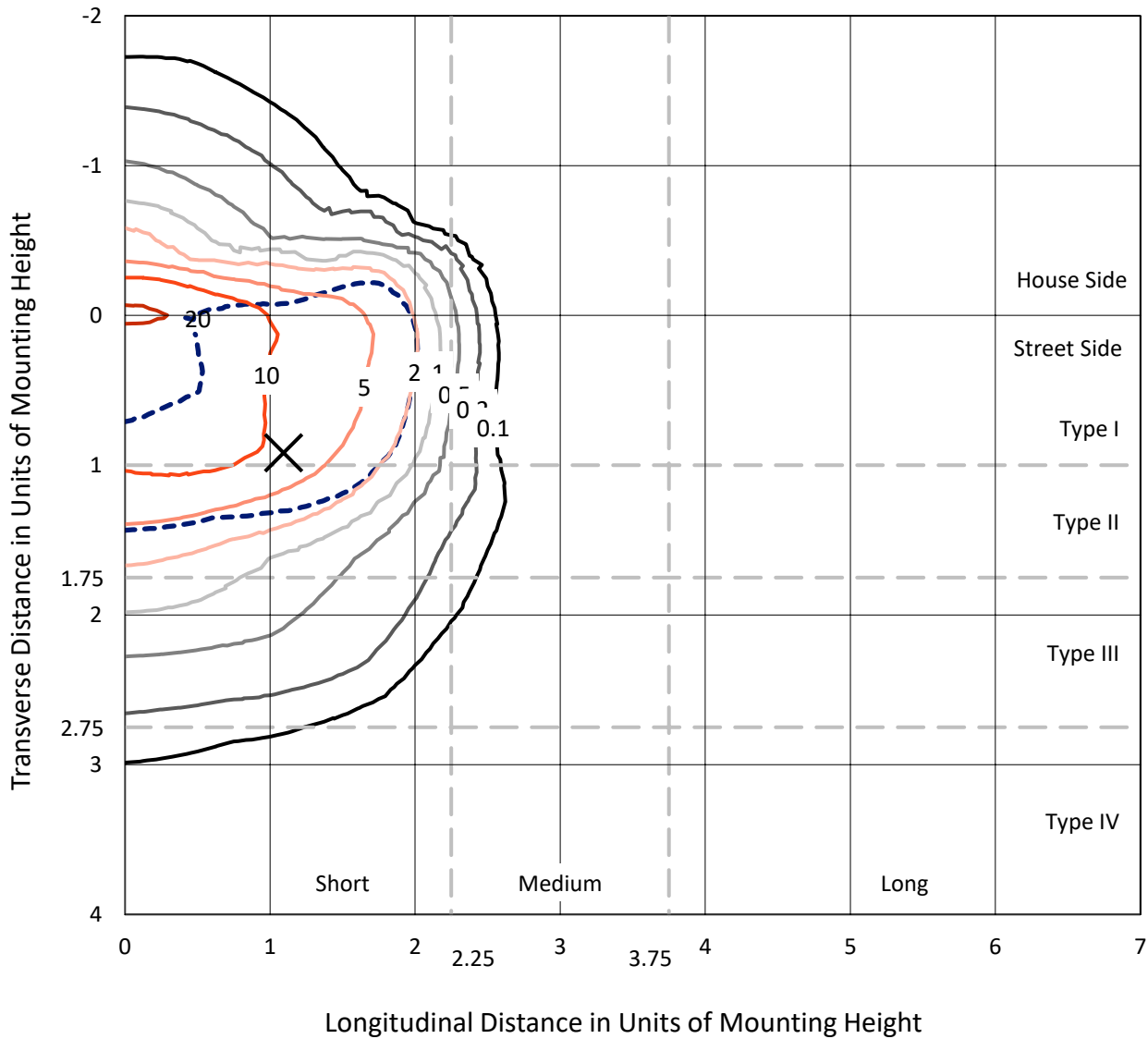
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

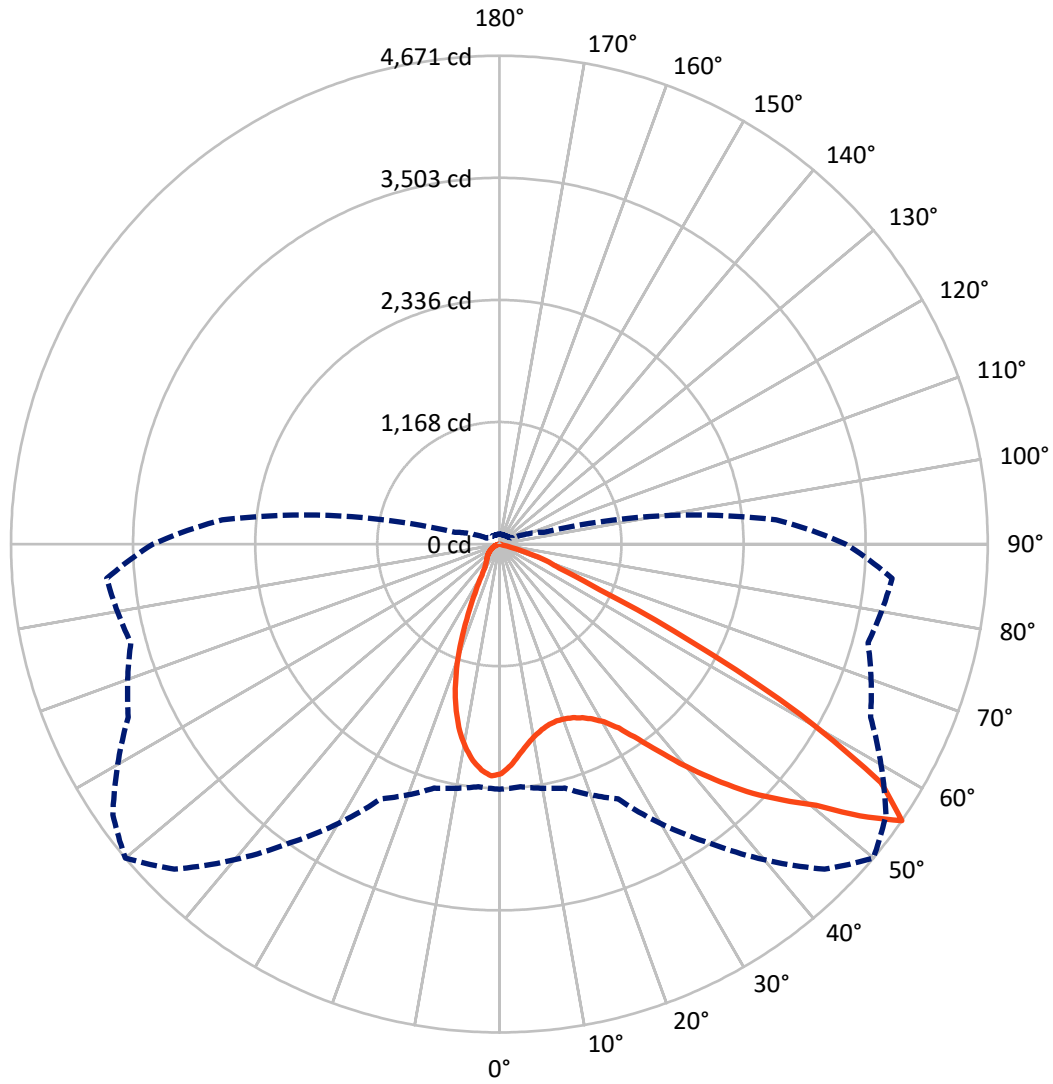
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22 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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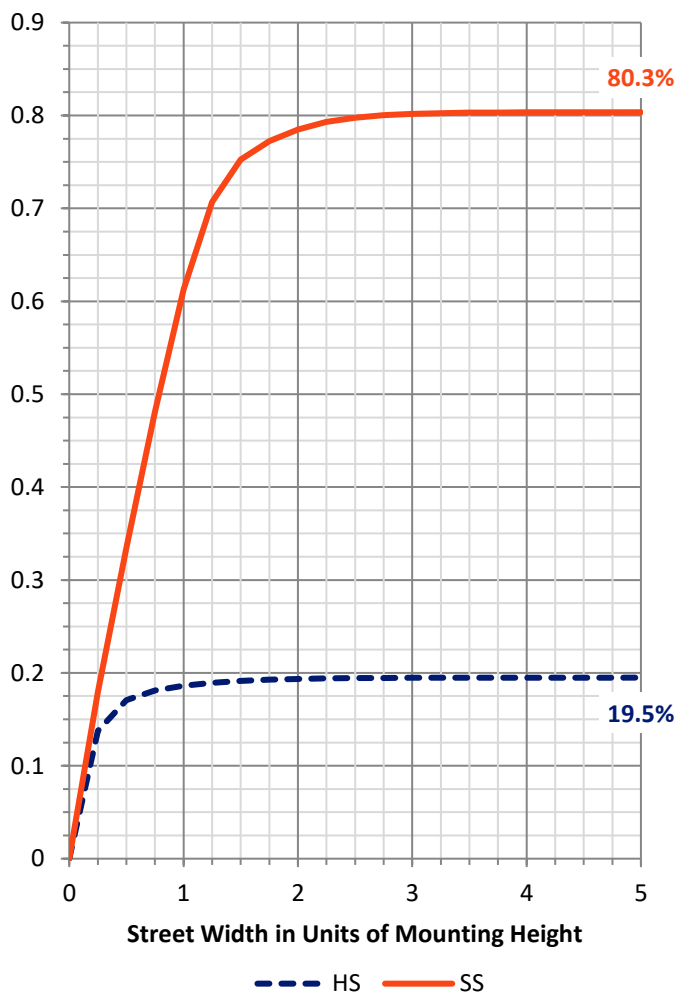
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1233.6	0.0	1233.6
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	5026.8	0.0	5026.8
	% Fixture	80.3	0.0	80.3
Total	Lumens	6260.4	0.0	6260.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.9	3.1
10°-20°	474.7	7.6
20°-30°	669.6	10.7
30°-40°	990.8	15.8
40°-50°	1429.4	22.8
50°-60°	1686.1	26.9
60°-70°	752.2	12.0
70°-80°	64.7	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°	6260.4	100.0
0°-180°	6260.4	100.0

Coefficient of Utilization



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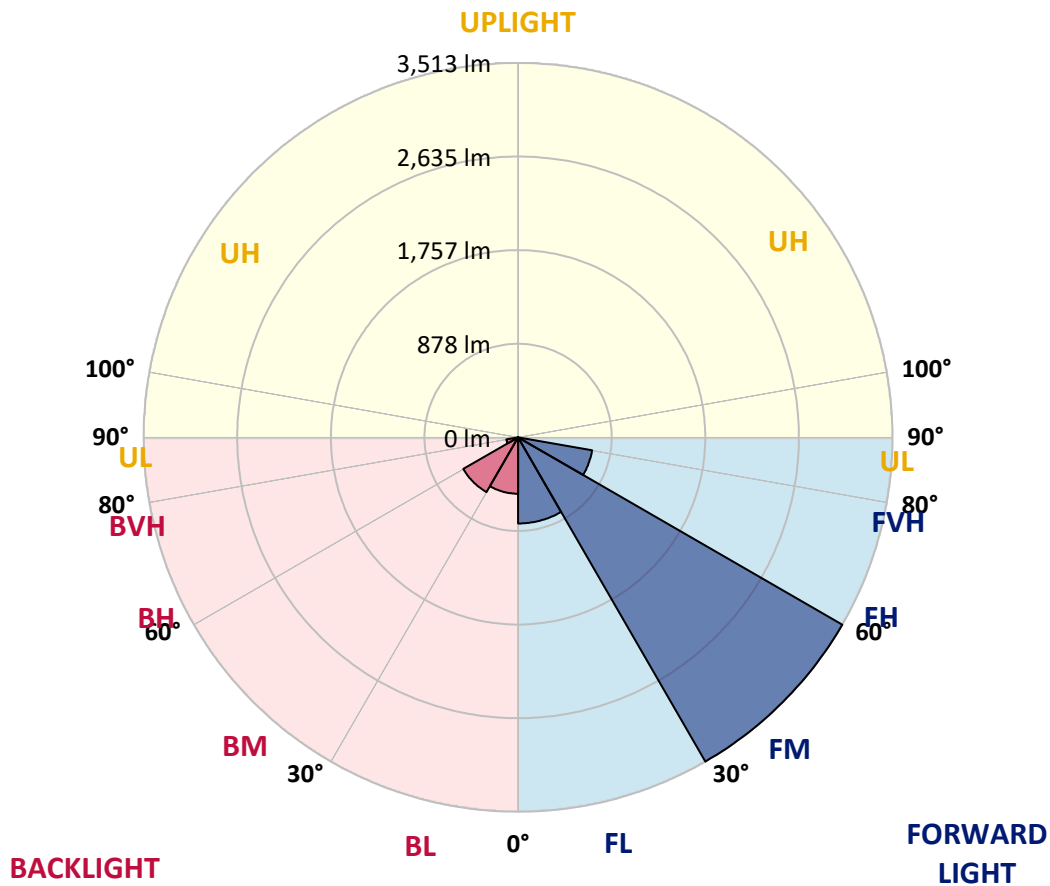
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	808.2	12.9			
FM (30°-60°)	3513.1	56.1			
FH (60°-80°)	705.4	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	528.9	8.4	B2/1000		
BM (30°-60°)	593.3	9.5	B1/1000		
BH (60°-80°)	111.4	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°	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5
2.5°	2040.6	2042.1	2042.9	2063.5	2071.2	2101.7	2117.8	2126.2	2148.3	2174.3	2195.7
5°	1903.8	1901.5	1905.3	1931.3	1948.1	1993.2	2017.7	2034.5	2083.4	2144.5	2195.7
7.5°	1784.6	1789.1	1793.7	1822.0	1847.2	1896.1	1931.3	1956.5	2024.5	2115.5	2201.8
10°	1700.5	1700.5	1707.4	1739.5	1769.3	1829.6	1864.8	1896.9	1977.9	2089.5	2208.7
12.5°	1638.6	1639.3	1647.8	1684.4	1718.8	1781.5	1818.2	1849.5	1938.9	2063.5	2210.3
15°	1609.5	1607.2	1614.1	1653.1	1691.3	1750.2	1788.4	1818.9	1911.4	2049.0	2217.9
17.5°	1601.9	1600.4	1605.7	1643.9	1682.9	1740.2	1777.7	1808.3	1907.6	2053.6	2240.8
20°	1624.1	1621.0	1618.7	1651.6	1688.3	1744.8	1783.8	1818.2	1925.9	2078.8	2276.0
22.5°	1676.8	1676.8	1671.4	1687.5	1712.0	1763.2	1803.7	1848.8	1974.1	2129.2	2327.9
25°	1773.9	1766.2	1756.3	1763.2	1760.1	1792.2	1840.3	1903.0	2065.0	2212.5	2391.4
27.5°	1884.7	1891.6	1874.7	1875.5	1848.8	1837.3	1893.1	1987.9	2200.3	2330.2	2485.4
30°	2035.2	2029.9	2030.7	2028.4	1966.5	1912.2	1972.6	2098.7	2370.7	2509.8	2607.7
32.5°	2152.9	2160.6	2185.8	2200.3	2119.3	2032.2	2096.4	2249.2	2564.9	2714.7	2757.5
35°	2277.5	2291.3	2342.5	2389.9	2321.8	2221.7	2290.5	2448.7	2747.5	2917.2	2929.4
37.5°	2409.0	2436.5	2497.6	2580.9	2570.2	2481.6	2544.2	2683.3	2891.2	3039.5	3071.6
40°	2559.5	2586.3	2686.4	2806.4	2831.6	2811.7	2832.4	2913.4	2986.0	3044.8	3132.7
42.5°	2724.6	2761.3	2888.2	3048.7	3143.4	3161.0	3112.8	3104.4	3027.3	2983.7	3119.7
45°	2919.5	2962.3	3106.0	3313.9	3464.4	3488.1	3404.8	3297.0	3053.2	2938.6	3080.8
47.5°	3138.1	3178.6	3321.5	3571.4	3795.3	3804.5	3659.3	3485.8	3130.4	2990.6	3110.6
50°	3211.4	3236.7	3360.5	3653.9	4066.7	4137.0	3926.8	3698.3	3285.6	3143.4	3255.8
52.5°	2959.2	2969.2	3076.9	3373.5	4011.6	4463.3	4317.3	4015.4	3561.5	3376.5	3479.7
55°	2344.8	2328.7	2415.8	2687.9	3486.6	4396.8	4671.2	4513.7	3916.9	3650.1	3770.9
57.5°	1640.1	1621.0	1601.1	1785.3	2601.6	3727.3	4304.3	4583.3	4255.4	3921.4	4085.0
60°	1348.2	1329.8	1233.5	1148.7	1572.9	2676.5	3306.2	3831.3	4227.9	3907.7	4075.1
62.5°	1164.7	1154.0	1115.1	999.7	925.5	1527.8	2070.4	2573.3	3244.3	3068.5	3077.7
65°	914.8	911.8	938.5	950.7	818.5	845.3	1056.2	1337.5	1754.0	1653.9	1568.3
67.5°	625.2	618.3	668.7	822.3	787.2	667.2	618.3	623.6	758.9	463.9	368.4
70°	397.4	381.4	382.1	509.8	640.5	526.6	476.9	419.6	377.5	68.8	78.0
72.5°	254.5	244.6	210.2	230.0	296.5	256.8	259.1	223.2	149.0	36.7	42.8
75°	107.0	98.6	75.7	60.4	59.6	37.4	32.9	30.6	20.6	20.6	22.2
77.5°	0.8	0.0	0.0	0.8	1.5	0.8	0.8	1.5	3.1	4.6	5.3
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°	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5
2.5°	2208.7	2190.4	2211.0	2218.7	2217.9	2218.7	2196.5	2181.2	2180.4	2161.3	2152.2
5°	2217.1	2202.6	2217.9	2208.0	2184.3	2154.5	2114.7	2080.3	2065.0	2042.9	2032.2
7.5°	2233.2	2217.9	2215.6	2175.9	2117.0	2054.3	1984.0	1921.4	1887.7	1847.2	1849.5
10°	2244.6	2227.1	2197.3	2116.2	2018.4	1918.3	1813.6	1720.4	1661.5	1607.2	1598.1
12.5°	2249.2	2223.2	2153.7	2031.4	1893.8	1763.2	1609.5	1476.6	1384.8	1313.8	1303.8
15°	2257.6	2215.6	2097.9	1929.0	1740.2	1555.3	1359.6	1177.7	1056.2	974.4	981.3
17.5°	2270.6	2207.2	2035.2	1814.4	1575.1	1313.8	1049.3	840.7	729.1	681.7	682.5
20°	2289.0	2197.3	1966.5	1688.3	1377.2	1040.9	733.7	576.3	544.9	543.4	541.1
22.5°	2313.4	2187.3	1893.1	1549.9	1142.6	729.1	488.4	439.5	452.4	477.7	482.3
25°	2342.5	2175.1	1811.3	1394.0	886.5	478.4	366.1	358.4	389.8	423.4	431.0
27.5°	2387.6	2169.0	1718.1	1216.7	622.1	343.2	299.6	304.2	332.5	360.7	367.6
30°	2464.0	2180.4	1616.4	1018.0	399.7	273.6	259.8	266.7	282.0	296.5	302.6
32.5°	2567.9	2214.1	1517.8	800.9	285.1	237.7	234.6	238.5	244.6	253.0	255.3
35°	2689.4	2272.2	1416.2	573.2	235.4	217.1	214.0	214.0	217.1	218.6	219.3
37.5°	2789.6	2333.3	1320.6	381.4	210.9	201.0	196.4	194.1	193.4	194.9	195.7
40°	2833.1	2358.5	1216.7	277.4	193.4	186.5	179.6	172.7	172.7	178.1	178.8
42.5°	2802.6	2330.2	1096.7	229.3	181.1	171.2	160.5	154.4	157.4	162.8	164.3
45°	2737.6	2260.7	964.5	202.5	168.9	155.9	143.7	139.9	142.9	149.8	151.3
47.5°	2726.9	2214.8	806.3	185.0	155.9	142.9	129.9	126.1	129.9	135.3	136.8
50°	2833.1	2254.6	630.5	169.7	143.7	129.2	118.5	114.6	116.9	120.0	121.5
52.5°	3027.3	2402.1	509.0	155.1	129.2	115.4	108.5	103.9	103.9	107.0	107.8
55°	3313.9	2659.6	439.5	138.3	112.3	104.7	98.6	94.0	94.0	95.5	96.3
57.5°	3644.0	2971.5	455.5	116.2	98.6	94.8	89.4	85.6	87.1	87.1	87.1
60°	3598.2	2948.5	487.6	97.8	87.1	85.6	81.0	79.5	83.3	80.2	78.7
62.5°	2650.5	2036.8	255.3	80.2	74.9	73.4	70.3	73.4	78.7	70.3	67.3
65°	1287.0	985.9	102.4	65.7	63.4	61.9	60.4	65.0	68.0	55.0	52.0
67.5°	302.6	246.1	66.5	55.8	52.7	49.7	51.2	52.0	49.7	37.4	35.9
70°	78.7	77.2	52.0	46.6	42.0	39.0	39.0	38.2	32.9	23.7	22.2
72.5°	42.8	42.0	37.4	35.2	29.0	26.0	26.7	23.7	18.3	13.8	13.0
75°	21.4	22.9	21.4	19.9	16.0	14.5	14.5	13.0	9.2	5.3	5.3
77.5°	4.6	5.3	5.3	4.6	3.8	3.1	3.1	3.8	1.5	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)