

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: P633028

Luminaire Tested: GWS-SA2D-830-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-830-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR 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: 5425.1 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

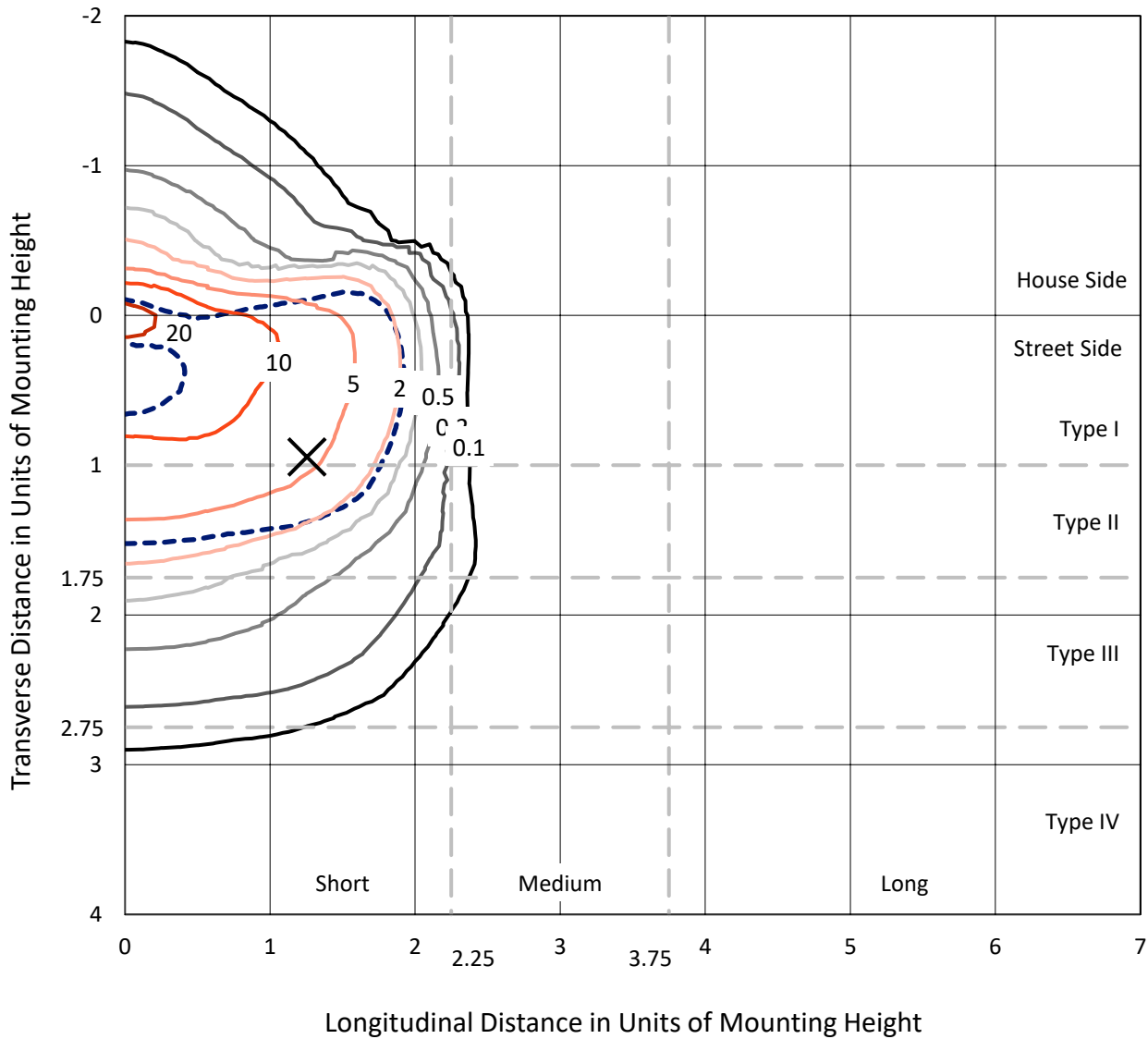
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

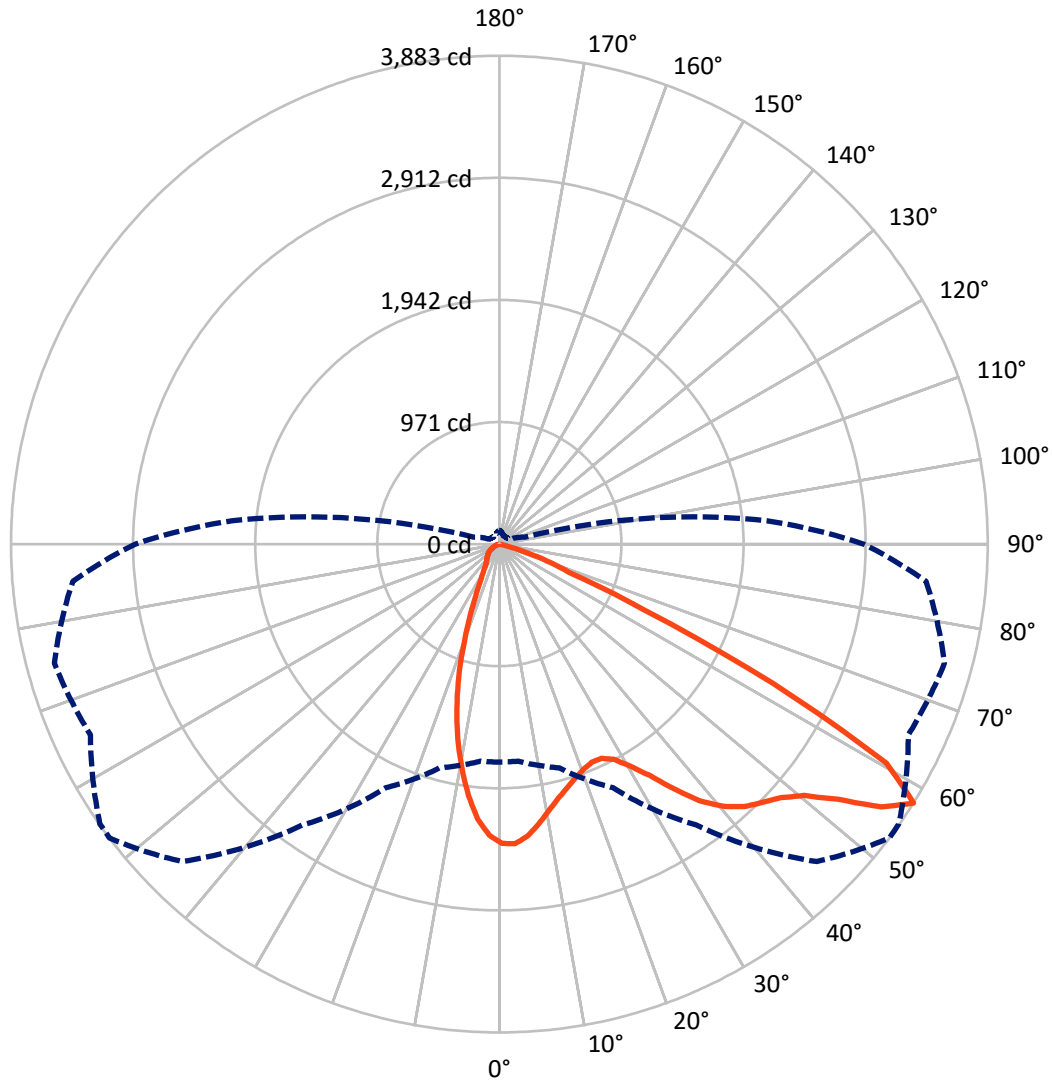
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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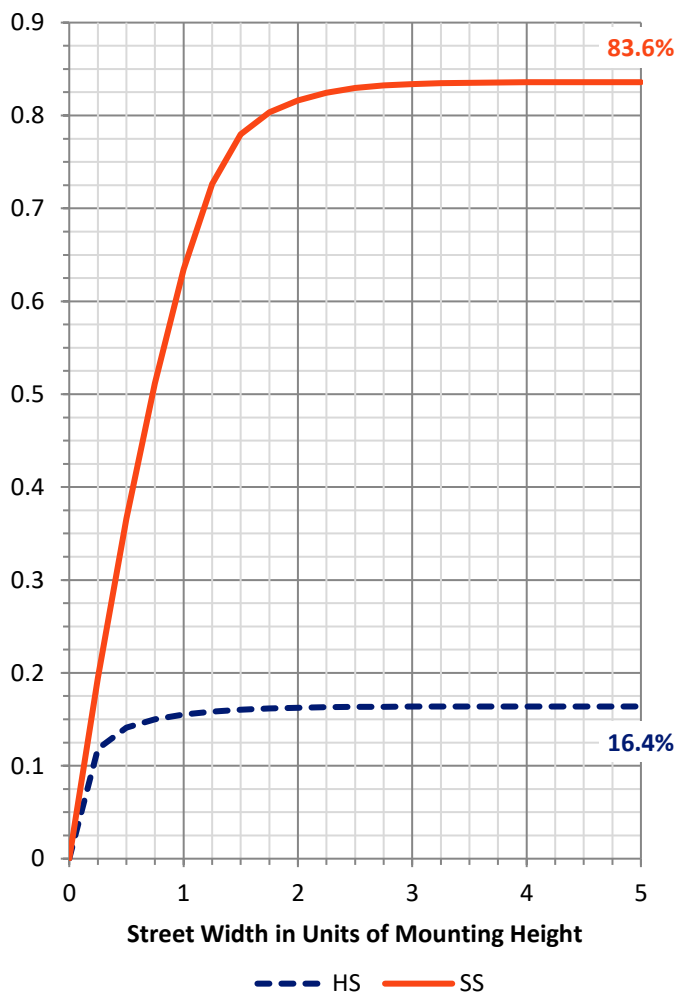
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	896.2	0.0	896.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4528.9	0.0	4528.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	5425.1	0.0	5425.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.6	3.8
10°-20°	447.0	8.2
20°-30°	582.3	10.7
30°-40°	844.7	15.6
40°-50°	1218.8	22.5
50°-60°	1474.0	27.2
60°-70°	600.7	11.1
70°-80°	54.0	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°	5425.1	100.0
0°-180°	5425.1	100.0

Coefficient of Utilization



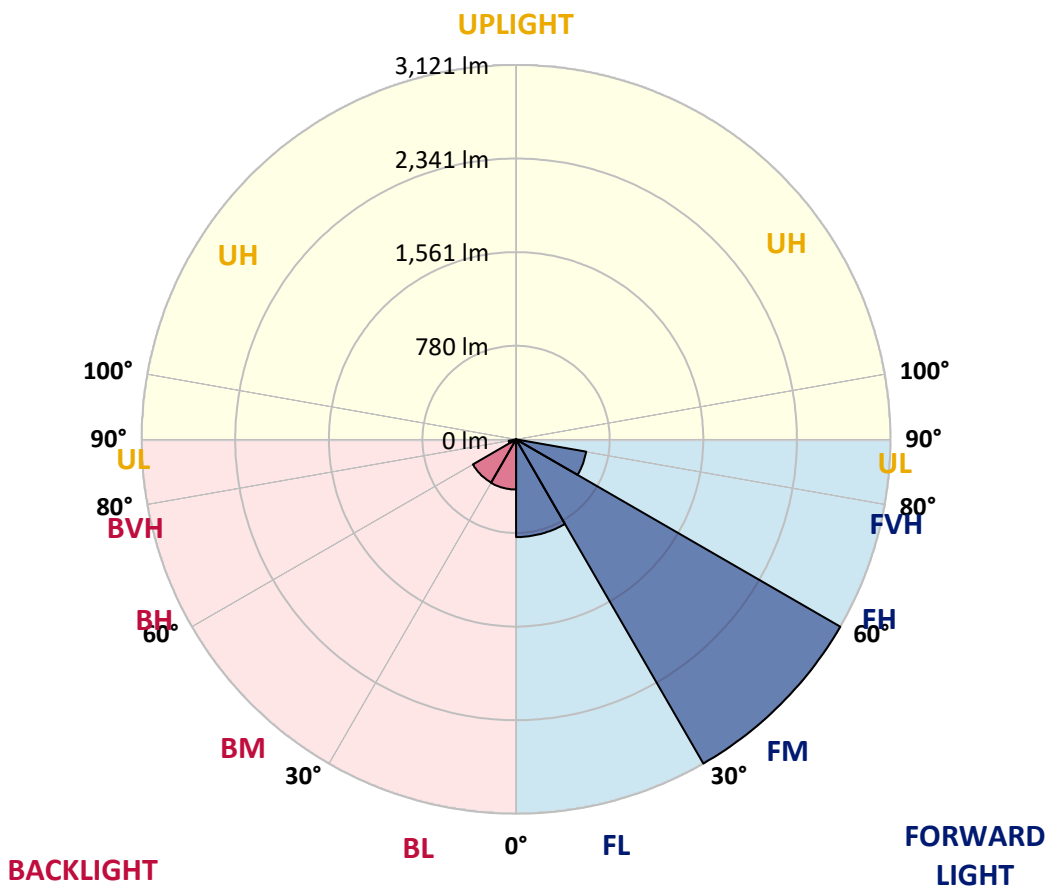
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	814.7	15.0			
FM (30°-60°)	3121.5	57.5			
FH (60°-80°)	592.8	10.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	418.2	7.7	B1/500		
BM (30°-60°)	415.9	7.7	B1/1000		
BH (60°-80°)	62.0	1.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8
2.5°	2346.5	2351.8	2361.1	2373.1	2381.1	2385.1	2385.1	2396.4	2389.1	2383.1	2376.4
5°	2246.1	2251.4	2264.1	2283.3	2302.6	2316.6	2332.5	2344.5	2349.2	2349.2	2337.9
7.5°	2104.5	2111.8	2119.8	2146.4	2188.3	2219.5	2246.8	2264.1	2289.3	2297.3	2281.3
10°	1952.2	1959.5	1977.5	2014.1	2061.9	2108.5	2155.0	2177.0	2220.2	2242.8	2224.8
12.5°	1823.2	1826.5	1850.5	1894.4	1955.5	2019.4	2075.9	2098.5	2159.7	2193.6	2172.3
15°	1716.8	1718.8	1742.8	1791.3	1861.8	1940.2	2011.4	2034.7	2109.8	2161.0	2129.1
17.5°	1636.4	1637.0	1657.7	1710.2	1784.0	1871.1	1955.5	1984.1	2081.2	2143.0	2095.2
20°	1595.8	1593.8	1608.4	1654.3	1724.1	1811.2	1911.0	1946.2	2065.2	2140.4	2069.2
22.5°	1596.5	1591.8	1597.8	1630.4	1689.6	1771.4	1883.1	1923.0	2066.6	2151.7	2047.3
25°	1634.4	1627.7	1629.1	1646.3	1688.2	1762.7	1887.1	1929.6	2093.2	2189.6	2039.3
27.5°	1698.2	1690.9	1690.9	1699.5	1722.1	1790.0	1936.9	1985.5	2164.3	2263.4	2055.9
30°	1780.7	1773.3	1770.7	1779.3	1798.0	1860.5	2048.0	2098.5	2286.0	2384.4	2109.1
32.5°	1875.1	1866.4	1871.1	1883.1	1901.0	1987.5	2190.9	2258.1	2438.3	2547.3	2204.9
35°	1974.8	1967.5	1988.8	2014.7	2042.6	2163.7	2388.4	2446.9	2625.1	2750.1	2351.2
37.5°	2069.9	2066.6	2111.1	2165.7	2223.5	2375.1	2589.2	2634.4	2785.4	2970.9	2530.0
40°	2165.0	2164.3	2240.8	2336.5	2429.0	2585.9	2741.5	2778.7	2883.1	3142.4	2701.6
42.5°	2271.4	2271.4	2377.1	2504.8	2627.8	2764.1	2853.2	2869.8	2927.0	3241.5	2830.6
45°	2373.1	2379.1	2501.4	2649.7	2795.3	2903.1	2930.3	2931.6	2944.9	3300.0	2937.6
47.5°	2453.6	2458.9	2605.2	2776.1	2933.0	3008.8	3012.8	3006.8	2992.2	3355.9	3020.1
50°	2518.7	2526.7	2679.6	2860.5	3027.4	3110.5	3141.1	3135.1	3097.9	3415.7	3077.9
52.5°	2550.6	2561.9	2705.6	2902.4	3132.5	3284.7	3369.8	3383.8	3256.1	3449.0	3133.1
55°	2295.3	2311.9	2444.3	2713.5	3191.0	3554.0	3687.7	3685.0	3427.7	3548.0	3267.4
57.5°	1733.5	1732.1	1841.8	2136.4	2725.5	3569.3	3883.1	3877.8	3587.9	3663.1	3405.1
60°	1180.2	1172.3	1201.5	1343.8	1905.7	2907.7	3534.1	3605.9	3474.2	3383.8	2891.1
62.5°	971.5	964.1	954.8	915.6	1094.5	1811.2	2441.6	2550.6	2533.4	2351.8	1813.2
65°	795.2	801.2	827.2	810.5	761.3	928.9	1267.3	1331.8	1217.5	1024.6	633.7
67.5°	586.5	589.1	623.0	710.8	684.2	618.4	596.4	607.1	355.7	163.6	105.7
70°	346.4	348.4	379.7	497.4	555.2	474.8	402.9	397.0	141.0	43.9	47.9
72.5°	196.2	192.2	198.1	236.7	302.5	252.0	207.5	188.8	42.6	24.6	24.6
75°	93.1	90.4	77.8	73.1	66.5	42.6	26.6	22.6	10.6	10.0	10.0
77.5°	0.7	2.0	1.3	2.0	2.0	1.3	0.7	0.7	2.0	2.0	2.7
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8
2.5°	2364.5	2344.5	2339.9	2338.5	2319.9	2300.0	2279.4	2271.4	2259.4	2252.1	2258.1
5°	2319.9	2291.3	2266.1	2242.8	2201.6	2156.3	2117.1	2091.8	2067.9	2052.0	2055.9
7.5°	2256.7	2219.5	2161.7	2102.5	2026.7	1958.9	1883.1	1836.5	1793.3	1769.4	1780.7
10°	2189.6	2140.4	2048.0	1947.6	1828.5	1722.1	1613.8	1525.3	1474.1	1425.6	1430.9
12.5°	2123.8	2058.6	1920.3	1768.0	1617.8	1460.8	1297.3	1174.9	1091.1	1030.6	1021.3
15°	2062.6	1978.8	1796.0	1595.1	1390.4	1181.6	972.8	797.9	700.8	641.0	637.0
17.5°	2008.1	1904.3	1667.0	1414.3	1157.6	890.3	650.3	519.3	463.5	437.5	434.9
20°	1955.5	1829.2	1535.3	1230.8	903.6	625.0	448.8	388.3	370.4	359.7	361.1
22.5°	1905.0	1747.4	1397.0	1027.3	677.6	438.8	347.8	324.5	322.5	323.8	324.5
25°	1862.4	1672.3	1254.7	831.2	483.4	334.5	290.6	283.9	289.9	298.6	299.9
27.5°	1840.5	1611.1	1115.7	633.7	349.7	272.0	252.0	254.7	265.3	274.6	275.9
30°	1846.5	1565.2	972.1	459.5	269.3	229.4	222.7	228.1	238.7	247.4	248.7
32.5°	1889.0	1542.0	825.2	334.5	221.4	200.1	197.5	201.5	210.8	217.4	218.1
35°	1973.5	1547.3	685.5	256.0	190.2	178.2	177.5	180.2	184.8	189.5	190.2
37.5°	2097.8	1590.5	547.9	212.8	172.2	163.6	160.9	160.9	164.2	166.2	167.6
40°	2231.5	1655.7	438.8	188.2	159.6	150.3	145.0	143.0	145.6	148.3	148.9
42.5°	2341.9	1720.8	356.4	170.9	149.6	137.0	130.3	129.0	132.3	137.0	138.3
45°	2426.3	1771.4	297.2	156.9	138.3	124.3	117.0	117.0	123.0	131.0	132.3
47.5°	2503.4	1811.9	253.3	144.3	127.7	113.0	105.7	107.1	117.0	127.7	129.7
50°	2556.0	1844.5	220.8	133.0	119.0	103.7	97.1	99.7	111.7	124.3	126.3
52.5°	2612.5	1884.4	199.5	123.0	111.0	96.4	90.4	92.4	105.7	119.7	122.3
55°	2768.7	2018.0	198.8	109.7	97.1	86.4	83.8	84.4	97.7	113.7	117.0
57.5°	2896.4	2135.7	212.1	92.4	81.1	75.8	74.5	75.1	87.1	105.1	109.0
60°	2396.4	1659.6	175.5	76.5	67.8	66.5	64.5	65.8	77.1	93.1	96.4
62.5°	1418.3	948.8	83.8	58.5	57.8	56.5	54.5	57.2	67.8	81.8	83.8
65°	484.7	281.3	53.2	47.9	49.2	47.2	45.2	47.9	57.2	65.2	65.8
67.5°	93.1	74.5	42.6	39.9	40.6	36.6	35.9	38.6	43.9	45.2	44.5
70°	48.5	43.2	32.6	32.6	31.3	25.9	25.9	28.6	28.6	26.6	25.9
72.5°	25.3	23.9	21.3	23.9	19.9	16.0	16.0	17.3	16.0	13.3	13.3
75°	10.0	10.0	9.3	12.0	8.6	7.3	6.6	8.0	6.0	4.7	4.7
77.5°	2.7	2.7	2.7	3.3	2.0	2.0	1.3	1.3	0.7	0.0	0.0
80°	0.0	0.7	0.0	0.7	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)