

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: P632868

Luminaire Tested: GWS-SA2D-750-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-750-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11470.6 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

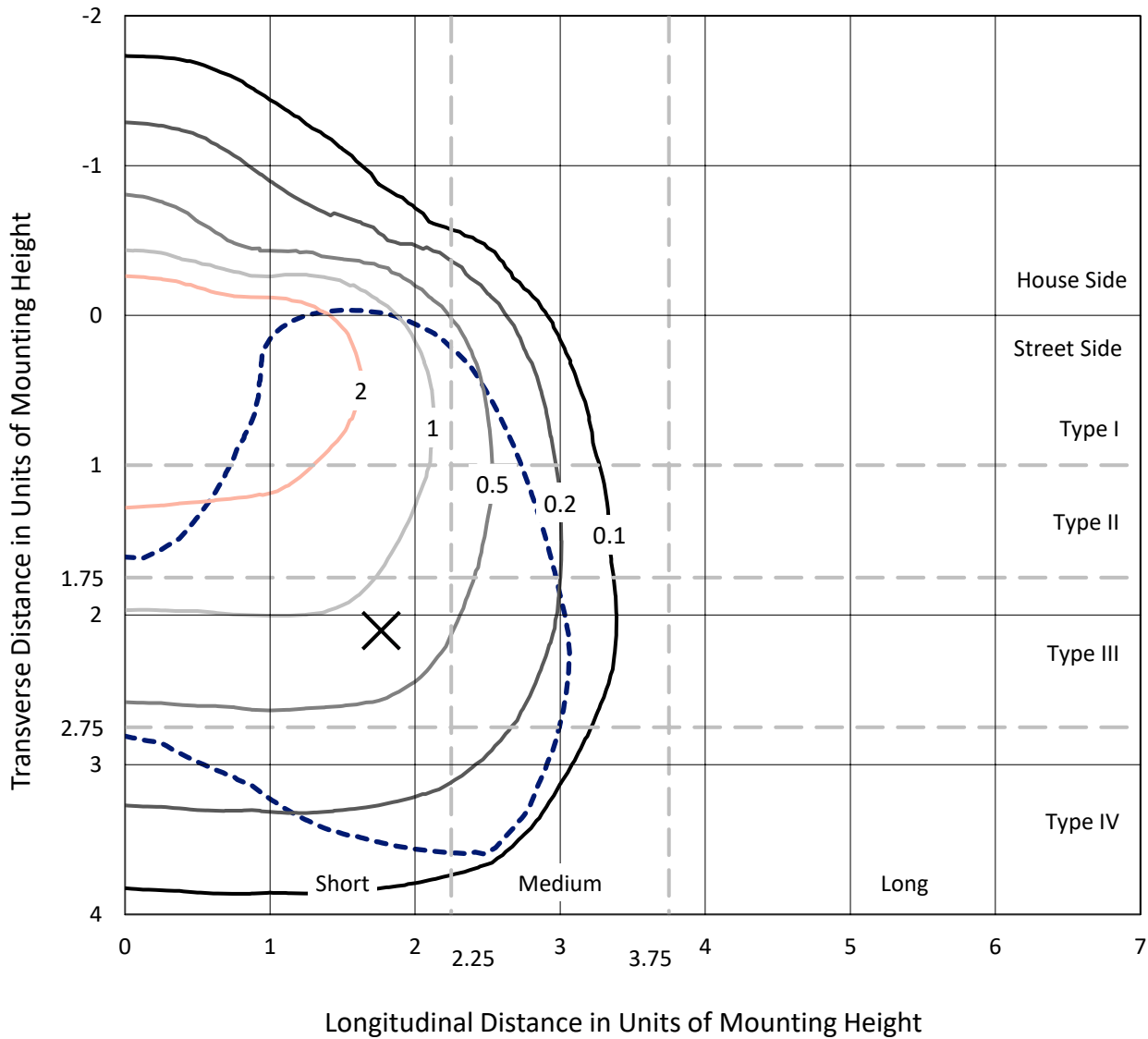
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

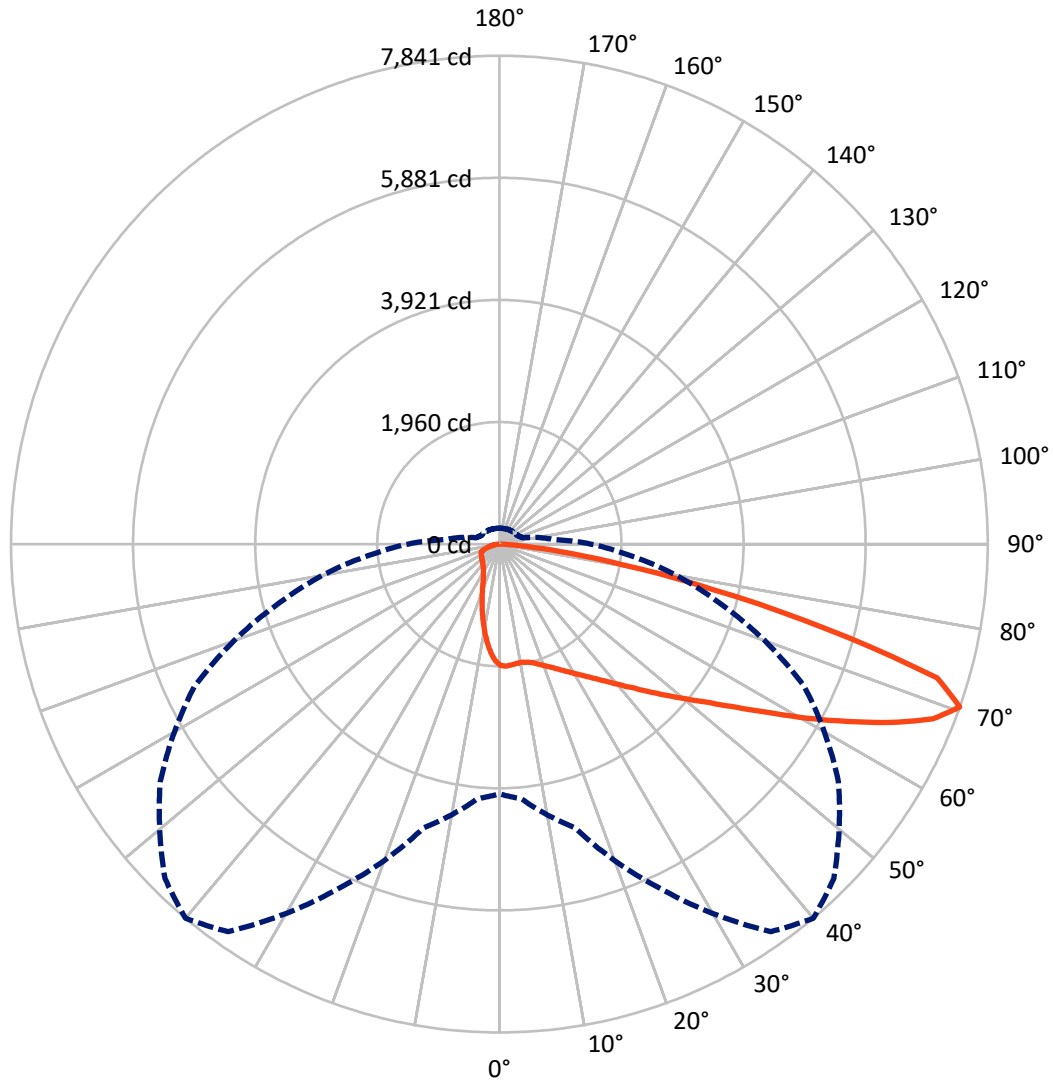
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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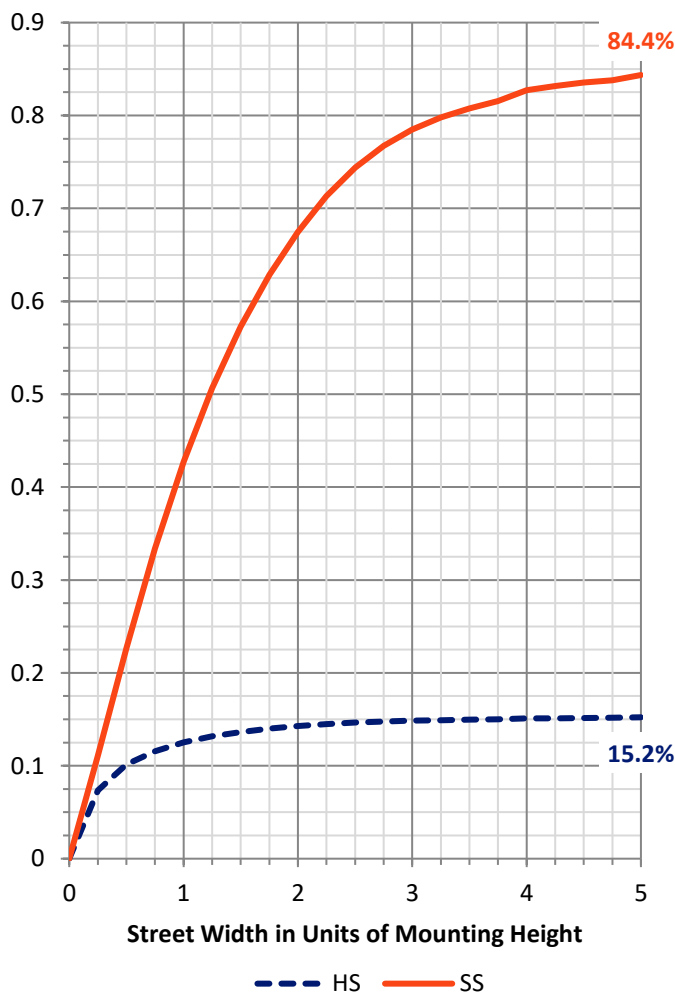
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1766.8	0.0	1766.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	9703.8	0.0	9703.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	11470.6	0.0	11470.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	1.5
10°-20°	448.5	3.9
20°-30°	704.3	6.1
30°-40°	1058.9	9.2
40°-50°	1634.4	14.2
50°-60°	2427.3	21.2
60°-70°	3059.5	26.7
70°-80°	1769.3	15.4
80°-90°	196.4	1.7
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°	11470.6	100.0
0°-180°	11470.6	100.0

Coefficient of Utilization



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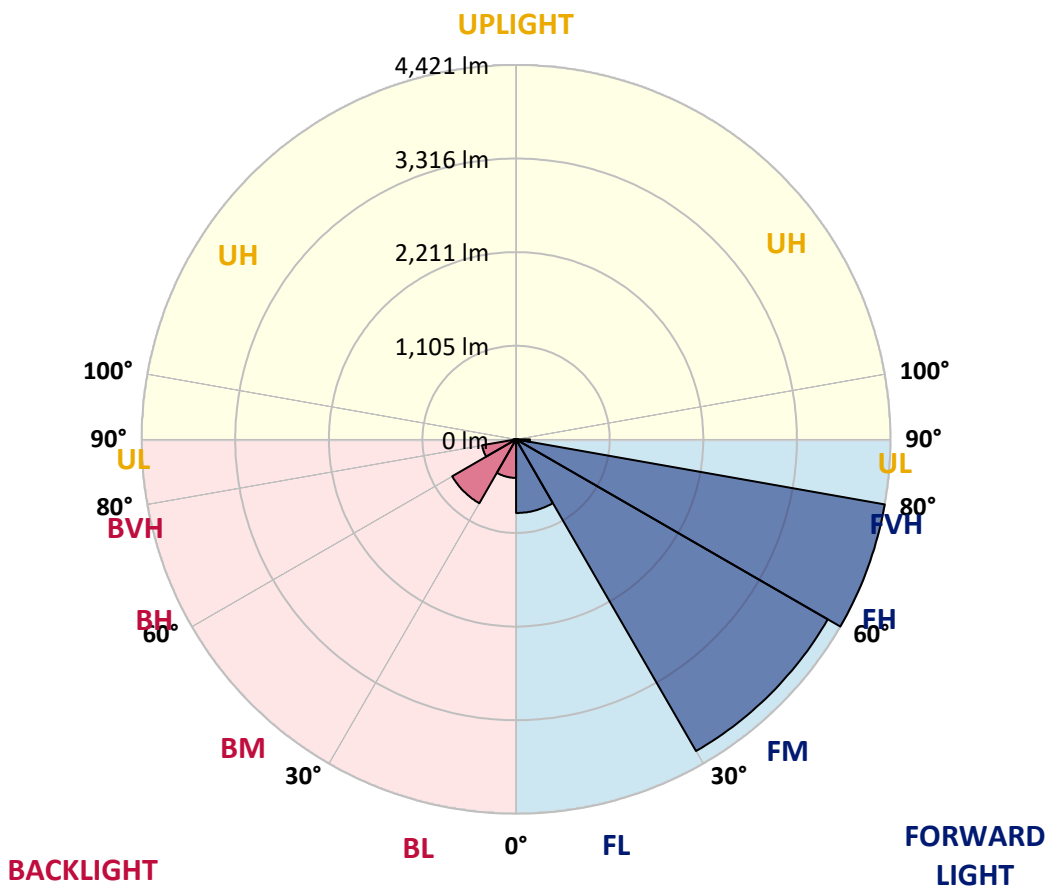
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	869.6	7.6			
FM (30°-60°)	4249.7	37.0			
FH (60°-80°)	4421.0	38.5			G2/5000
FVH (80°-90°)	163.5	1.4			G2/225
BL (0°-30°)	455.3	4.0	B1/500		
BM (30°-60°)	870.9	7.6	B1/1000		
BH (60°-80°)	407.8	3.6	B1/500		G1/500
BVH (80°-90°)	32.8	0.3			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8
2.5°	1959.8	1963.3	1965.8	1969.2	1967.5	1962.4	1966.7	1966.7	1957.3	1947.0	1937.6
5°	1962.4	1966.7	1965.8	1965.0	1958.1	1949.6	1949.6	1944.4	1928.1	1911.9	1896.5
7.5°	1957.3	1956.4	1955.5	1953.0	1945.3	1935.9	1934.1	1923.9	1902.5	1880.2	1857.9
10°	1934.1	1933.3	1935.9	1941.8	1940.1	1931.6	1931.6	1922.2	1897.3	1869.9	1840.8
12.5°	1915.3	1915.3	1925.6	1941.8	1947.8	1944.4	1945.3	1938.4	1910.2	1877.6	1843.4
15°	1917.9	1918.7	1941.0	1967.5	1978.7	1976.1	1976.9	1969.2	1937.6	1905.0	1858.8
17.5°	1935.0	1939.3	1977.8	2014.6	2029.2	2025.8	2019.8	2006.9	1971.0	1934.1	1877.6
20°	1971.0	1977.8	2027.5	2073.7	2090.8	2083.1	2072.8	2047.2	2007.8	1967.5	1898.2
22.5°	2042.0	2046.3	2101.1	2146.5	2160.2	2150.8	2130.2	2093.4	2048.0	2006.1	1923.0
25°	2142.2	2147.3	2199.6	2241.5	2238.1	2227.0	2198.7	2153.3	2099.4	2054.9	1959.0
27.5°	2261.2	2269.8	2321.1	2354.5	2332.3	2316.0	2284.3	2229.5	2168.7	2128.5	2013.8
30°	2391.3	2394.8	2438.4	2471.8	2437.6	2415.3	2376.8	2317.7	2262.9	2233.0	2096.0
32.5°	2517.2	2520.6	2558.3	2577.1	2541.2	2524.9	2491.5	2429.0	2390.5	2374.2	2218.4
35°	2649.9	2649.1	2679.9	2696.2	2659.3	2652.5	2618.2	2570.3	2563.4	2584.8	2397.3
37.5°	2782.6	2774.9	2791.2	2812.6	2792.0	2798.9	2776.6	2760.4	2786.9	2842.6	2635.4
40°	2888.8	2888.8	2905.9	2932.5	2939.3	2969.3	2956.4	2977.8	3063.5	3196.2	2929.9
42.5°	2983.0	2983.8	3019.8	3060.9	3110.5	3156.8	3167.1	3222.7	3399.9	3608.0	3299.8
45°	3081.4	3082.3	3131.1	3191.0	3296.3	3384.5	3405.1	3530.1	3783.5	4037.0	3701.3
47.5°	3195.3	3185.9	3253.5	3353.7	3503.5	3630.3	3683.3	3860.6	4180.8	4492.4	4079.8
50°	3323.7	3304.0	3379.4	3552.3	3737.3	3911.1	4000.1	4203.1	4607.2	4912.8	4435.9
52.5°	3468.4	3457.3	3536.1	3746.7	4029.2	4229.6	4350.3	4616.6	5021.6	5331.5	4718.5
55°	3648.2	3621.7	3735.6	4003.6	4371.7	4626.9	4769.9	5025.9	5474.5	5711.7	4934.2
57.5°	3845.2	3816.1	3968.5	4324.6	4816.9	5096.9	5275.9	5486.5	5900.9	6002.8	5061.0
60°	4057.5	4048.1	4228.7	4701.4	5347.8	5673.1	5802.4	5993.4	6271.6	6171.4	5029.3
62.5°	4251.9	4248.4	4511.3	5109.8	5910.3	6268.2	6370.9	6421.4	6538.7	6160.3	4777.6
65°	4456.5	4485.6	4840.9	5583.2	6555.0	6906.1	6948.9	6820.4	6628.6	5868.3	4262.1
67.5°	4482.2	4538.7	5048.1	6026.7	7166.3	7497.7	7463.4	6972.0	6363.2	5055.8	3340.9
70°	4008.7	4107.2	4717.6	6094.4	7597.0	7841.0	7593.6	6645.8	5400.0	3662.8	2101.1
72.5°	3349.4	3434.2	3973.6	5197.1	7041.3	7352.1	7017.4	5625.2	3816.1	2101.1	1070.2
75°	2607.1	2705.6	3203.0	4131.1	5271.6	5395.7	5227.9	3923.1	2097.7	866.5	486.3
77.5°	1590.8	1661.9	2048.9	2798.9	3688.5	3502.7	2968.4	2199.6	920.4	415.3	300.5
80°	703.8	747.5	1009.5	1503.5	2131.1	2014.6	1588.2	939.2	503.4	263.7	209.8
82.5°	377.6	405.8	497.4	595.1	935.8	978.6	793.7	541.1	270.6	150.7	119.9
85°	166.1	182.4	226.0	215.8	307.4	302.2	304.8	371.6	129.3	69.4	77.9
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	9.4	49.7	12.8	20.5	18.0
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°	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8	1947.8
2.5°	1927.3	1911.9	1907.6	1902.5	1893.0	1876.8	1864.8	1851.1	1845.1	1838.2	1839.1
5°	1879.3	1860.5	1842.5	1819.4	1790.3	1757.8	1735.5	1709.8	1696.1	1683.3	1686.7
7.5°	1838.2	1809.1	1772.3	1723.5	1671.3	1613.1	1566.0	1529.2	1504.3	1487.2	1495.8
10°	1812.6	1778.3	1714.1	1634.5	1546.3	1457.2	1389.6	1326.2	1286.9	1256.0	1254.3
12.5°	1807.4	1762.9	1669.6	1554.0	1426.4	1307.4	1208.1	1122.5	1070.2	1031.7	1046.3
15°	1812.6	1756.1	1631.0	1479.5	1318.5	1157.6	1034.3	935.8	873.3	838.2	835.6
17.5°	1818.6	1749.2	1587.4	1399.0	1205.5	1021.4	878.5	774.0	709.8	674.7	675.5
20°	1823.7	1738.9	1536.0	1310.8	1090.8	894.7	746.6	647.3	589.9	564.2	568.5
22.5°	1832.3	1728.7	1481.2	1216.7	973.5	772.3	642.1	561.7	527.4	510.3	511.1
25°	1848.5	1722.7	1424.7	1113.9	857.9	674.7	570.2	516.3	494.9	484.6	483.7
27.5°	1881.9	1727.8	1365.6	1014.6	753.4	600.2	524.0	488.9	474.3	467.5	466.6
30°	1937.6	1748.3	1314.3	913.6	663.5	542.0	492.3	470.9	462.3	456.4	455.5
32.5°	2022.3	1786.9	1258.6	819.4	590.8	499.2	467.5	456.4	450.4	446.9	446.9
35°	2150.8	1857.1	1203.8	737.2	534.3	465.8	447.8	443.5	438.4	436.7	438.4
37.5°	2335.7	1969.2	1154.1	665.3	494.0	440.1	426.4	428.1	423.8	426.4	429.0
40°	2570.3	2119.1	1112.2	606.2	464.1	421.2	407.5	413.5	411.0	413.5	417.8
42.5°	2867.4	2304.9	1080.5	560.0	442.7	405.8	393.0	399.0	397.3	400.7	405.0
45°	3198.7	2549.7	1066.0	527.4	427.2	394.7	381.0	385.3	383.6	386.1	390.4
47.5°	3516.4	2772.4	1078.8	508.6	414.4	385.3	370.7	372.4	371.6	370.7	373.3
50°	3790.4	2949.6	1115.6	502.6	405.8	375.9	362.2	363.0	360.5	355.3	357.0
52.5°	4013.8	3091.7	1137.9	502.6	401.6	365.6	352.8	353.6	348.5	341.6	342.5
55°	4161.1	3149.1	1119.9	501.7	399.8	357.0	343.3	344.2	339.1	330.5	331.3
57.5°	4203.1	3093.4	1044.6	492.3	398.1	350.2	333.9	335.6	332.2	322.8	322.8
60°	4085.8	2889.7	906.7	470.9	393.8	345.9	327.1	329.6	327.9	318.5	318.5
62.5°	3778.4	2527.5	742.3	438.4	381.9	340.8	321.1	326.2	330.5	325.4	324.5
65°	3203.0	2024.9	603.6	402.4	366.5	332.2	312.5	325.4	334.8	341.6	341.6
67.5°	2403.3	1449.5	492.3	364.7	343.3	315.1	301.4	313.4	320.2	324.5	327.1
70°	1464.9	852.8	387.9	321.1	309.9	289.4	279.1	267.1	257.7	256.0	256.9
72.5°	716.6	488.0	315.1	273.1	264.6	245.7	222.6	217.5	213.2	210.6	209.8
75°	394.7	339.9	260.3	226.9	211.5	188.4	183.2	174.7	173.0	169.5	170.4
77.5°	279.1	268.0	214.9	184.1	161.0	149.0	151.5	145.6	145.6	143.0	142.1
80°	209.8	210.6	165.2	134.4	119.0	114.7	117.3	117.3	115.6	114.7	113.9
82.5°	132.7	149.8	111.3	86.5	84.8	85.6	84.8	83.9	85.6	83.1	82.2
85°	91.6	107.9	67.6	51.4	51.4	50.5	52.2	51.4	53.1	50.5	50.5
87.5°	20.5	47.9	24.8	15.4	16.3	15.4	16.3	17.1	18.8	19.7	19.7
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)