

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: P637498

Luminaire Tested: GWS-SA4C-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-830-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 9159.7 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

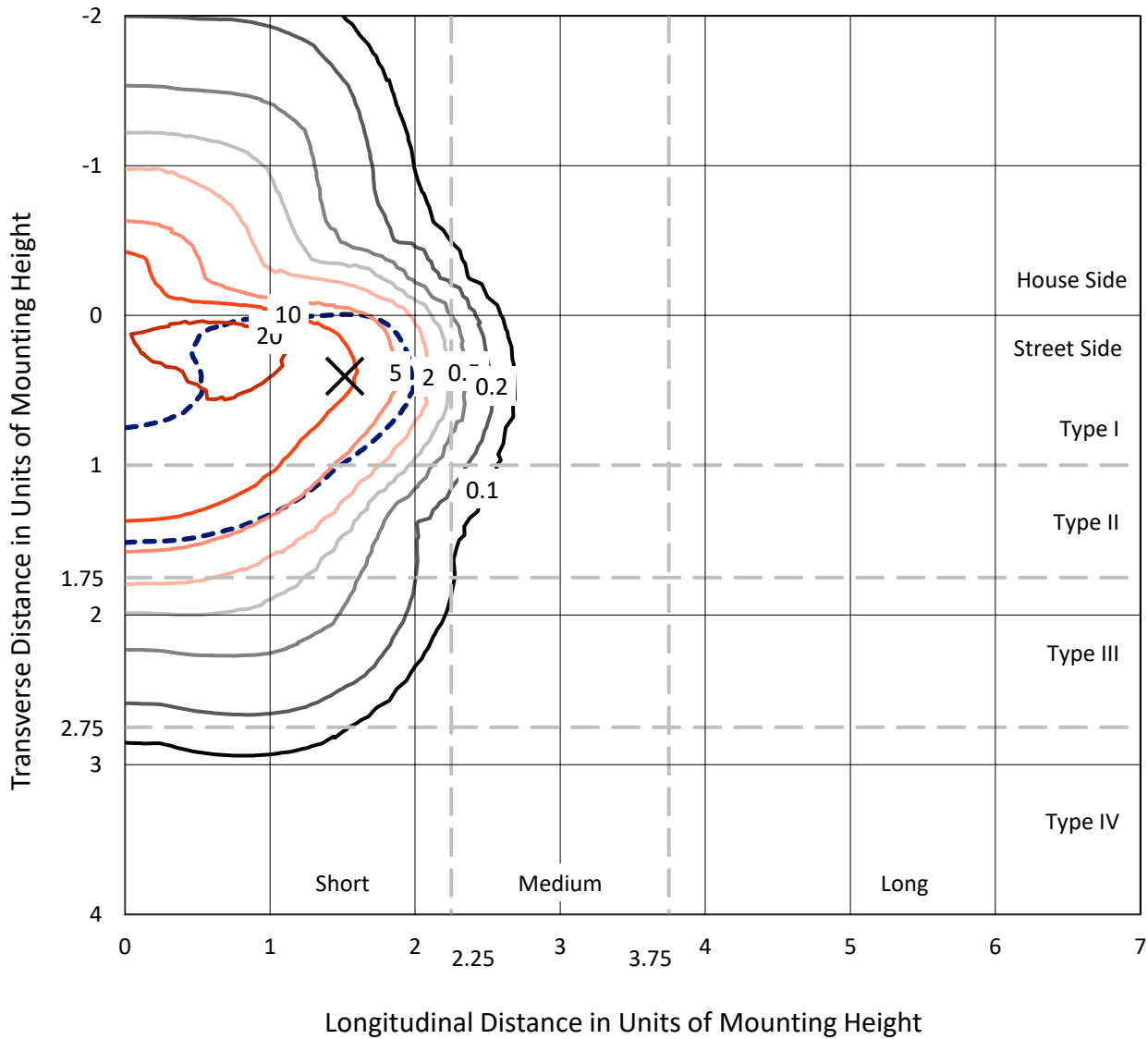
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

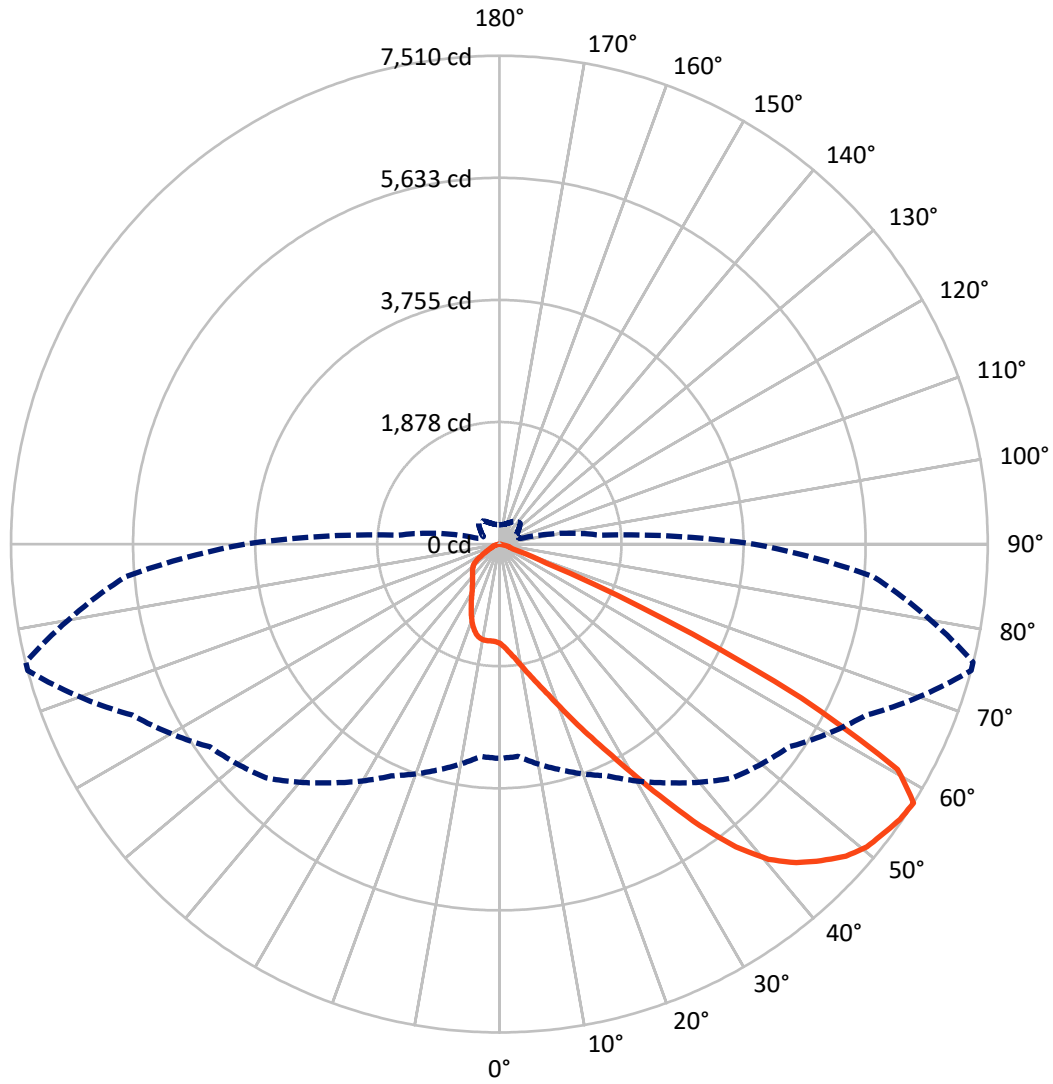
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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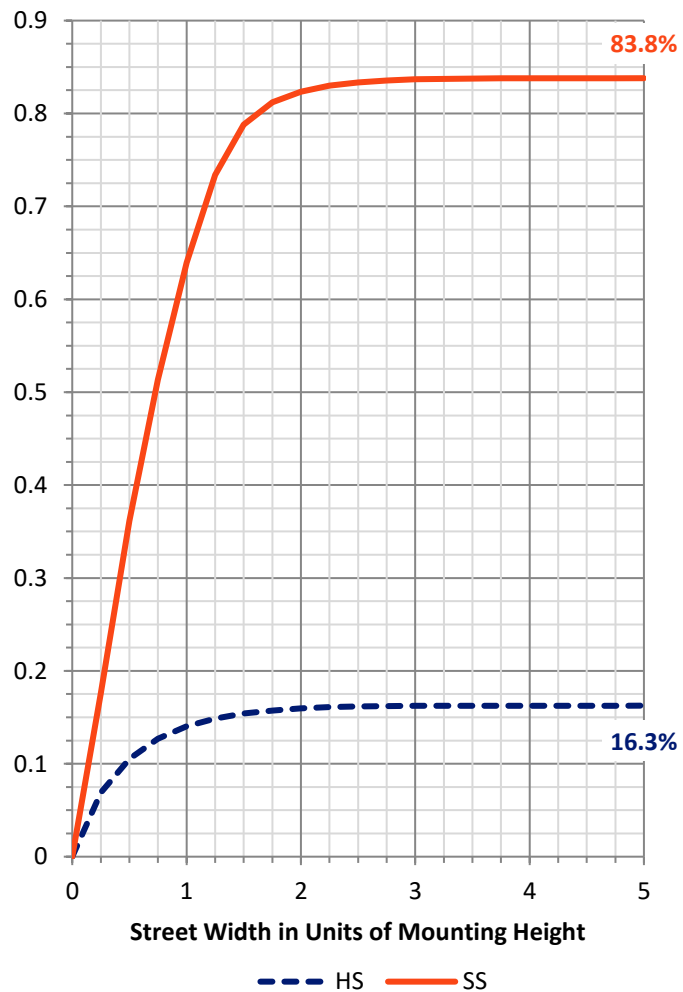
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1496.2	0.0	1496.2
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	7663.5	0.0	7663.5
	% Fixture	83.7	0.0	83.7
Total	Lumens	9159.7	0.0	9159.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	1.7
10°-20°	505.0	5.5
20°-30°	924.8	10.1
30°-40°	1534.3	16.8
40°-50°	2343.2	25.6
50°-60°	2633.0	28.7
60°-70°	971.2	10.6
70°-80°	92.8	1.0
80°-90°	0.1	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°	9159.7	100.0
0°-180°	9159.7	100.0

Coefficient of Utilization



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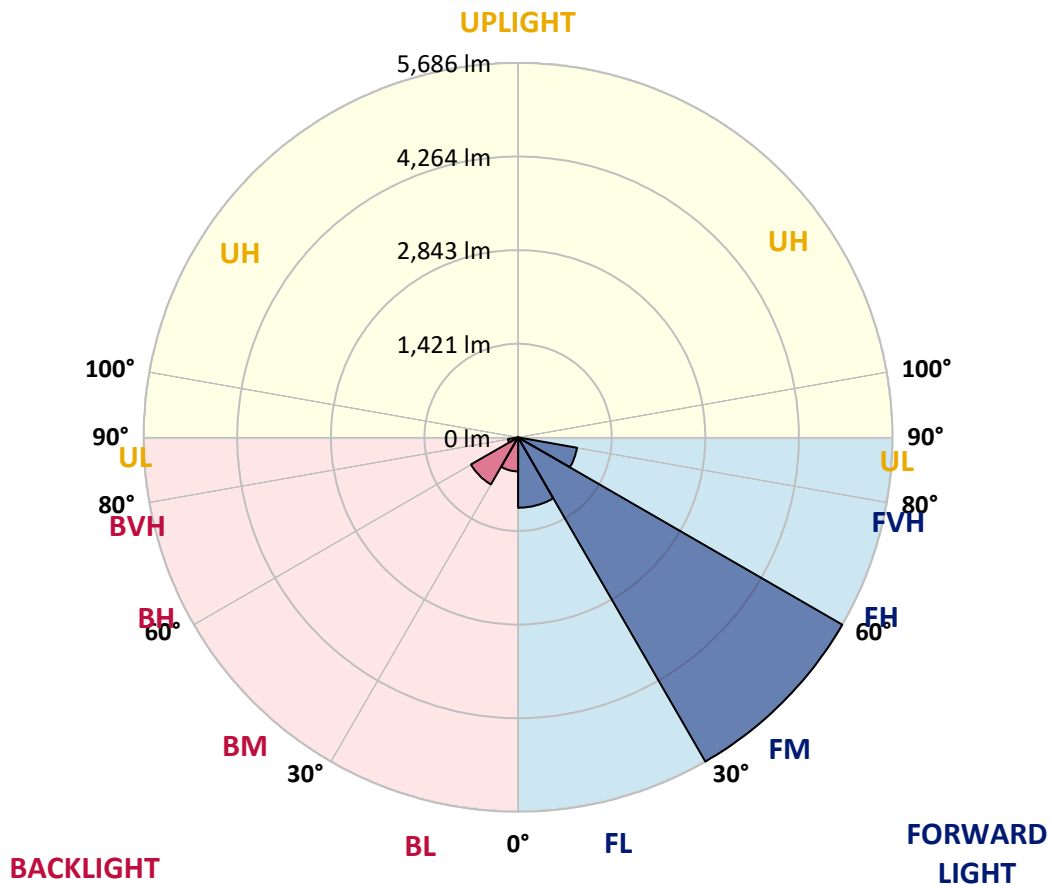
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.9	11.7			
FM (30°-60°)	5685.9	62.1			
FH (60°-80°)	908.6	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	516.3	5.6	B2/1000		
BM (30°-60°)	824.5	9.0	B1/1000		
BH (60°-80°)	155.4	1.7	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°	55°	65°	75°	76°	85°
0°	1527.7	1527.7	1527.7	1527.7	1527.7	1527.7	1527.7	1527.7	1527.7	1527.7	1527.7
2.5°	1706.8	1724.5	1719.0	1707.9	1701.3	1678.0	1663.7	1621.7	1591.8	1588.5	1560.9
5°	1922.4	1919.0	1914.6	1901.3	1890.3	1853.8	1810.7	1740.0	1676.9	1669.2	1610.6
7.5°	2040.6	2042.8	2045.1	2042.8	2035.1	2007.5	1959.9	1877.0	1780.9	1774.2	1681.4
10°	2089.3	2093.7	2104.7	2125.8	2144.5	2142.3	2114.7	2029.6	1911.3	1900.2	1775.3
12.5°	2112.5	2118.0	2135.7	2175.5	2226.3	2266.1	2270.6	2194.3	2063.8	2046.2	1887.0
15°	2144.5	2150.1	2172.2	2224.1	2298.2	2376.7	2427.5	2378.9	2233.0	2214.2	2009.7
17.5°	2158.9	2166.7	2198.7	2267.2	2363.4	2483.9	2598.9	2594.5	2433.1	2418.7	2152.3
20°	2186.5	2192.1	2220.8	2294.9	2411.0	2584.5	2778.0	2847.6	2677.4	2656.4	2324.7
22.5°	2273.9	2276.1	2289.4	2335.8	2444.1	2657.5	2960.4	3142.8	2965.9	2938.2	2518.2
25°	2416.5	2415.4	2420.9	2428.6	2508.2	2731.5	3136.1	3475.5	3296.4	3266.6	2737.1
27.5°	2597.8	2597.8	2611.0	2588.9	2621.0	2823.3	3309.7	3858.0	3681.1	3639.1	2976.9
30°	2811.1	2810.0	2841.0	2805.6	2815.5	2968.1	3496.5	4274.7	4145.4	4093.4	3253.3
32.5°	3100.7	3094.1	3129.5	3080.8	3047.7	3187.0	3724.2	4710.3	4701.4	4621.8	3600.4
35°	3466.6	3455.6	3466.6	3419.1	3359.4	3493.2	4022.7	5144.7	5318.2	5234.2	4013.8
37.5°	3830.3	3865.7	3877.9	3796.1	3747.4	3881.2	4381.9	5533.8	5907.4	5820.1	4443.8
40°	4259.2	4248.2	4290.2	4198.4	4167.5	4315.6	4733.5	5823.4	6373.9	6291.0	4826.3
42.5°	4575.4	4595.3	4647.2	4596.4	4572.1	4711.4	5028.6	5992.6	6697.8	6616.0	5099.4
45°	4954.6	4968.9	4988.8	4946.8	4921.4	5058.5	5242.0	6066.6	6944.3	6855.9	5282.9
47.5°	5364.7	5375.7	5375.7	5289.5	5207.7	5264.1	5384.6	6108.6	7171.0	7085.8	5418.8
50°	5658.7	5664.2	5712.9	5652.1	5474.1	5386.8	5449.8	6149.5	7321.3	7241.7	5463.1
52.5°	5397.8	5391.2	5551.5	5677.5	5725.0	5551.5	5562.5	6209.2	7394.3	7325.7	5498.4
55°	4545.5	4534.5	4760.0	5066.2	5485.2	5707.4	5698.5	6244.6	7474.9	7432.9	5626.7
57.5°	3295.3	3276.5	3590.5	3930.9	4480.3	5082.8	5436.5	6224.7	7510.3	7507.0	5775.9
60°	1980.9	1965.5	2261.7	2619.9	3044.4	3650.1	4237.1	5575.8	7037.2	7043.8	5387.9
62.5°	1219.3	1233.7	1501.2	1683.6	1841.7	2024.1	2363.4	3750.7	5213.2	5256.3	3786.1
65°	820.2	831.3	1078.9	1308.8	1308.8	1070.1	918.6	1793.0	2781.3	2708.3	1790.8
67.5°	550.5	562.7	758.3	1026.9	1065.6	746.2	372.5	535.0	774.9	751.7	443.3
70°	323.9	337.2	505.2	704.2	776.0	519.6	248.7	226.6	220.0	213.3	172.4
72.5°	144.8	150.3	257.6	358.2	327.2	218.9	175.8	181.3	171.3	168.0	140.4
75°	44.2	46.4	66.3	77.4	78.5	78.5	106.1	142.6	134.9	136.0	108.3
77.5°	11.1	11.1	17.7	16.6	8.8	7.7	19.9	32.1	33.2	29.8	22.1
80°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
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°	1527.7	1527.7	1527.7	1527.7	1527.7	1527.7	1527.7	1527.7	1527.7	1527.7	1527.7
2.5°	1548.7	1520.0	1501.2	1474.6	1455.9	1436.0	1418.3	1403.9	1396.2	1394.0	1395.1
5°	1584.1	1538.8	1494.5	1443.7	1408.3	1375.2	1348.6	1327.6	1317.7	1314.4	1314.4
7.5°	1638.3	1575.2	1496.8	1417.2	1357.5	1305.5	1274.6	1251.4	1242.5	1240.3	1233.7
10°	1709.0	1622.8	1493.4	1369.6	1285.6	1231.5	1209.3	1202.7	1206.0	1207.1	1206.0
12.5°	1794.1	1672.5	1472.4	1300.0	1209.3	1176.2	1178.4	1196.1	1216.0	1225.9	1228.1
15°	1884.8	1717.8	1424.9	1217.1	1144.1	1143.0	1175.1	1216.0	1254.7	1271.2	1275.7
17.5°	1986.5	1754.3	1351.9	1128.6	1087.7	1119.8	1177.3	1240.3	1292.3	1319.9	1325.4
20°	2098.1	1784.2	1259.1	1045.7	1038.0	1095.5	1175.1	1252.5	1316.6	1347.5	1353.1
22.5°	2214.2	1805.2	1151.9	969.5	992.7	1067.8	1154.1	1229.2	1290.0	1325.4	1329.8
25°	2346.8	1807.4	1042.4	905.4	950.7	1030.3	1103.2	1165.1	1216.0	1246.9	1250.2
27.5°	2462.9	1780.9	945.1	853.4	912.0	983.8	1032.5	1066.7	1102.1	1119.8	1120.9
30°	2596.7	1734.4	853.4	811.4	872.2	926.4	950.7	958.4	961.7	965.0	960.6
32.5°	2755.8	1678.0	784.9	770.5	826.9	863.3	870.0	854.5	835.7	809.2	802.5
35°	2951.5	1627.2	728.5	730.7	777.1	799.2	793.7	760.5	724.1	692.0	686.5
37.5°	3163.8	1584.1	685.4	692.0	723.0	738.4	721.8	685.4	668.8	641.2	642.3
40°	3351.7	1548.7	646.7	653.3	667.7	682.1	655.5	631.2	662.2	659.9	662.2
42.5°	3485.4	1518.9	613.5	610.2	620.1	630.1	610.2	598.0	650.0	635.6	643.4
45°	3563.9	1491.2	585.9	566.0	581.5	599.1	585.9	570.4	588.1	521.8	516.2
47.5°	3617.0	1475.8	561.6	522.9	550.5	581.5	553.8	516.2	490.8	433.3	428.9
50°	3622.5	1468.0	532.8	478.7	514.0	547.2	515.1	463.2	426.7	401.3	398.0
52.5°	3651.3	1483.5	493.0	422.3	461.0	514.0	491.9	440.0	390.2	368.1	363.7
55°	3779.5	1548.7	426.7	344.9	401.3	488.6	473.1	392.4	344.9	331.6	328.3
57.5°	3912.1	1562.0	336.1	273.0	349.3	452.1	432.2	361.5	315.0	299.6	296.3
60°	3577.2	1286.7	252.0	225.5	308.4	417.9	400.2	342.7	288.5	269.7	266.4
62.5°	2350.2	695.3	200.1	191.2	259.8	353.7	364.8	309.5	257.6	237.7	236.6
65°	1083.3	322.8	153.7	151.4	203.4	281.9	313.9	270.8	217.8	200.1	200.1
67.5°	295.2	160.3	120.5	111.6	138.2	189.0	228.8	202.3	154.8	133.8	132.7
70°	147.0	129.3	108.3	96.2	99.5	117.2	134.9	112.8	78.5	64.1	63.0
72.5°	120.5	106.1	91.8	81.8	75.2	71.9	69.6	56.4	36.5	27.6	26.5
75°	89.5	76.3	65.2	53.1	45.3	42.0	37.6	27.6	15.5	8.8	7.7
77.5°	19.9	18.8	17.7	13.3	12.2	9.9	7.7	5.5	2.2	0.0	0.0
80°	1.1	1.1	1.1	1.1	1.1	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)