

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: P637004

Luminaire Tested: GWS-SA4B-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-830-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9586.3 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

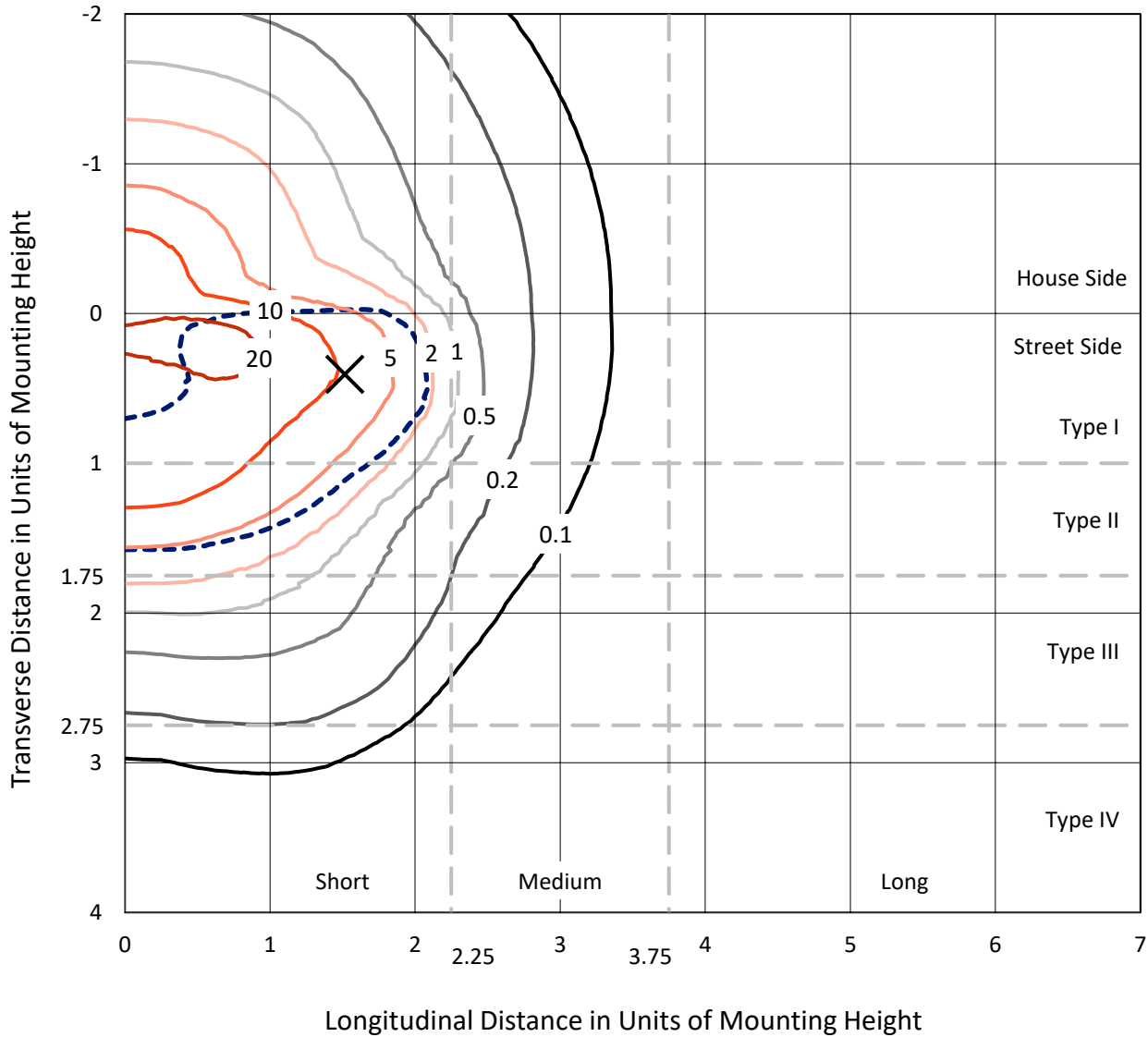
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

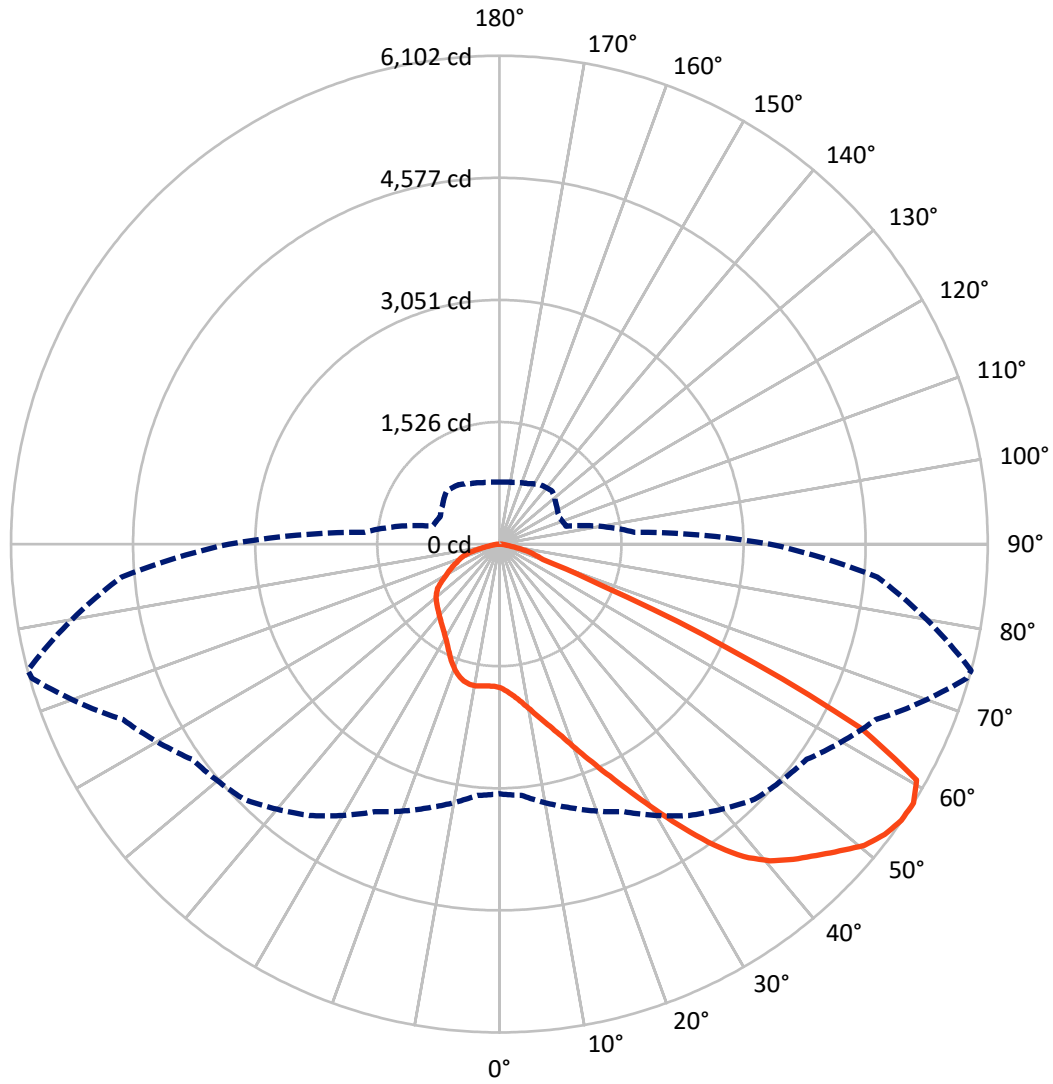
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.4 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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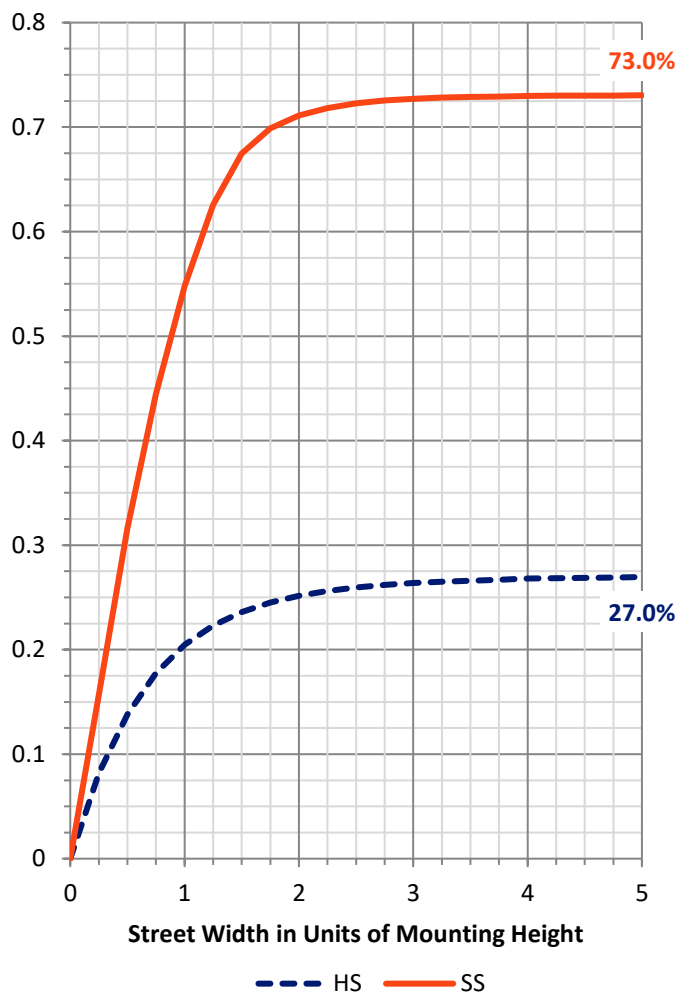
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2593.3	0.0	2593.3
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	6993.0	0.0	6993.0
	% Fixture	72.9	0.0	72.9
Total	Lumens	9586.3	0.0	9586.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	1.9
10°-20°	572.0	6.0
20°-30°	1014.4	10.6
30°-40°	1552.9	16.2
40°-50°	2162.2	22.6
50°-60°	2477.5	25.8
60°-70°	1273.0	13.3
70°-80°	320.5	3.3
80°-90°	34.3	0.4
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°	9586.3	100.0
0°-180°	9586.3	100.0

Coefficient of Utilization



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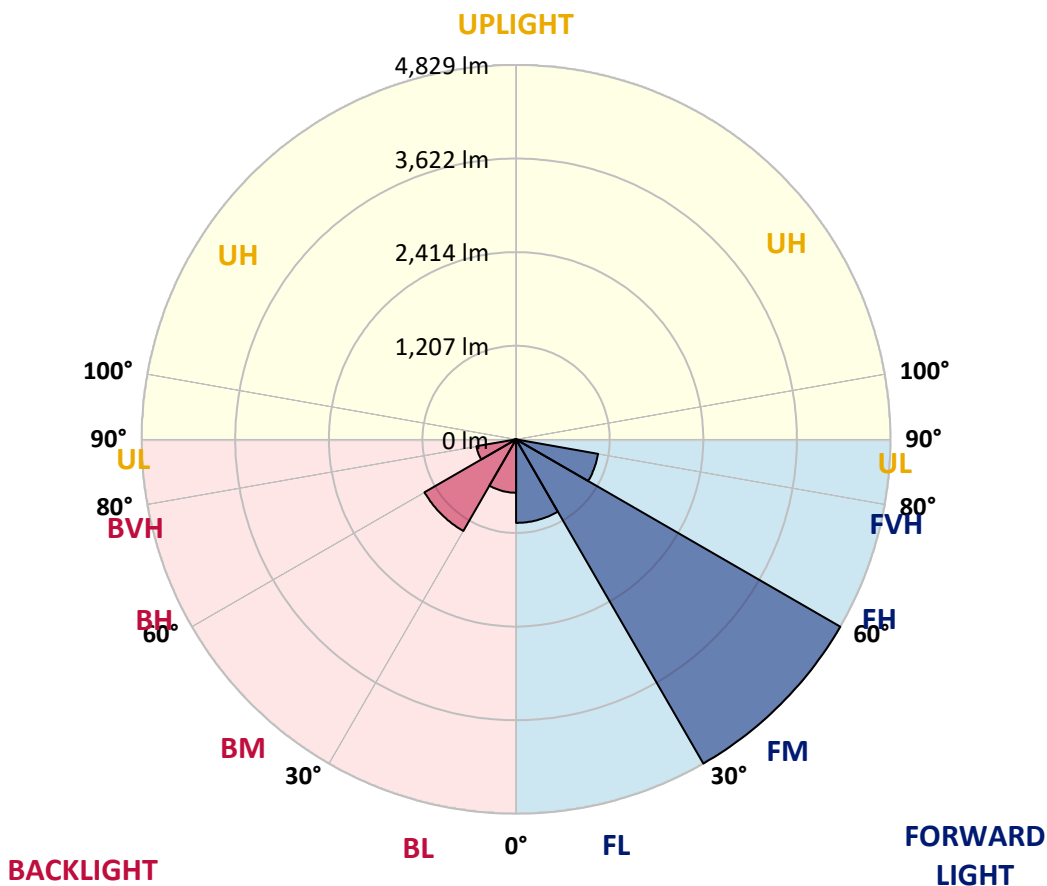
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1077.1	11.2			
FM (30°-60°)	4828.7	50.4			
FH (60°-80°)	1074.5	11.2			G1/1800
FVH (80°-90°)	12.7	0.1			G1/100
BL (0°-30°)	688.9	7.2	B2/1000		
BM (30°-60°)	1363.8	14.2	B2/2500		
BH (60°-80°)	518.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	21.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3
2.5°	1928.8	1933.8	1928.8	1937.1	1920.6	1913.2	1895.0	1867.8	1846.4	1843.1	1819.2
5°	2078.8	2089.6	2083.0	2079.7	2057.4	2040.9	2013.7	1959.3	1914.8	1908.2	1861.2
7.5°	2175.3	2182.7	2182.7	2185.2	2176.9	2158.0	2129.1	2064.8	2002.2	1992.3	1921.4
10°	2207.4	2213.2	2223.9	2244.5	2261.0	2266.8	2247.8	2186.0	2109.3	2099.4	2000.5
12.5°	2214.8	2221.4	2237.9	2275.8	2321.2	2362.4	2365.7	2320.4	2234.6	2223.9	2092.0
15°	2228.9	2235.4	2257.7	2304.7	2371.5	2450.6	2499.2	2467.9	2373.1	2361.6	2195.9
17.5°	2227.2	2234.6	2267.6	2330.2	2420.1	2534.7	2628.6	2641.8	2543.7	2523.9	2313.8
20°	2223.1	2229.7	2265.1	2341.8	2453.1	2610.5	2780.3	2848.7	2743.2	2725.1	2451.4
22.5°	2256.1	2263.5	2290.7	2354.1	2470.4	2669.0	2920.4	3085.3	2979.8	2954.2	2609.7
25°	2330.2	2341.0	2357.4	2401.1	2501.7	2721.0	3063.9	3353.2	3245.2	3214.7	2781.9
27.5°	2444.8	2458.0	2481.1	2501.7	2571.8	2786.9	3206.5	3653.2	3545.2	3513.1	2964.1
30°	2584.9	2602.3	2631.9	2645.9	2693.8	2884.2	3361.4	3962.3	3899.7	3855.2	3169.4
32.5°	2778.7	2802.6	2830.6	2834.7	2863.6	3031.7	3514.7	4269.0	4268.1	4236.8	3402.6
35°	3030.9	3056.4	3062.2	3068.0	3082.0	3234.5	3700.2	4548.4	4656.4	4620.1	3656.5
37.5°	3306.2	3343.3	3352.4	3326.8	3346.6	3478.5	3908.7	4772.6	4994.3	4955.6	3902.1
40°	3600.5	3615.3	3640.0	3599.6	3624.4	3757.9	4113.2	4916.0	5246.5	5205.3	4095.9
42.5°	3811.5	3838.7	3875.8	3860.9	3874.9	3996.9	4256.6	4985.3	5426.2	5385.0	4235.2
45°	4040.6	4048.9	4072.8	4069.5	4077.7	4191.5	4359.6	5015.7	5587.0	5549.9	4353.9
47.5°	4240.1	4252.5	4268.1	4250.0	4231.9	4306.0	4443.7	5042.1	5772.4	5727.9	4478.3
50°	4432.2	4442.9	4461.8	4409.1	4341.5	4360.4	4484.9	5078.4	5946.4	5915.0	4576.4
52.5°	4467.6	4479.1	4568.2	4578.9	4492.3	4425.6	4557.4	5158.4	6048.6	6028.8	4611.9
55°	4021.7	4042.3	4219.5	4423.1	4636.6	4615.1	4673.7	5200.4	6089.0	6093.9	4675.3
57.5°	3121.6	3151.2	3410.1	3689.5	4138.7	4510.5	4688.5	5189.7	6075.0	6102.2	4740.4
60°	2047.5	2064.8	2371.5	2684.7	3150.4	3664.8	4196.4	4996.8	5950.5	5989.2	4724.0
62.5°	1236.4	1256.2	1502.7	1740.1	2014.5	2358.3	2846.2	4015.9	4987.7	5074.3	3783.4
65°	863.0	889.4	1105.4	1300.7	1395.5	1324.6	1441.7	2242.9	3107.5	3143.8	2312.1
67.5°	625.6	643.8	821.0	1053.4	1158.1	935.6	713.0	993.3	1353.5	1366.7	953.7
70°	409.7	430.3	591.0	802.0	945.5	758.3	533.3	537.4	569.6	576.2	553.9
72.5°	225.0	237.4	365.2	532.5	558.9	453.4	416.3	446.8	469.0	469.0	474.8
75°	116.2	126.9	149.2	175.6	211.8	248.1	300.0	345.4	369.3	370.9	368.5
77.5°	59.3	63.5	80.0	86.5	94.8	110.5	143.4	183.8	205.2	213.5	211.8
80°	28.0	29.7	33.8	39.6	48.6	61.8	77.5	92.3	105.5	107.2	116.2
82.5°	14.8	16.5	18.1	21.4	26.4	33.0	45.3	54.4	62.6	64.3	71.7
85°	5.8	6.6	7.4	8.2	11.5	14.0	19.0	25.6	31.3	31.3	37.1
87.5°	0.0	0.0	0.0	0.0	0.8	1.6	3.3	4.1	5.8	5.8	9.9
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°	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3
2.5°	1813.4	1789.5	1778.8	1761.5	1747.5	1731.8	1719.5	1710.4	1704.6	1701.3	1698.0
5°	1843.1	1806.8	1778.0	1743.4	1719.5	1696.4	1677.4	1664.2	1657.6	1652.7	1649.4
7.5°	1889.3	1840.6	1786.2	1732.6	1690.6	1653.5	1629.6	1615.6	1606.5	1603.2	1600.8
10°	1952.7	1885.1	1795.3	1710.4	1647.7	1607.3	1590.9	1584.3	1585.1	1583.4	1582.6
12.5°	2024.4	1932.1	1792.8	1670.8	1601.6	1577.7	1578.5	1589.2	1601.6	1604.9	1605.7
15°	2101.9	1978.3	1768.9	1619.7	1565.3	1567.8	1589.2	1614.8	1637.8	1646.9	1648.6
17.5°	2186.0	2017.0	1725.2	1563.7	1535.6	1562.0	1601.6	1643.6	1677.4	1692.2	1696.4
20°	2280.0	2050.0	1663.4	1508.4	1507.6	1551.3	1609.0	1664.2	1707.1	1726.9	1730.2
22.5°	2379.7	2070.6	1587.6	1457.3	1478.8	1537.3	1603.2	1660.9	1706.3	1726.0	1730.2
25°	2480.3	2077.2	1504.3	1410.3	1449.1	1515.0	1575.2	1621.4	1664.2	1681.5	1684.8
27.5°	2574.2	2058.2	1425.2	1370.0	1421.9	1482.1	1522.4	1547.2	1576.8	1590.0	1592.5
30°	2669.8	2020.3	1358.4	1337.8	1391.4	1436.7	1454.9	1456.5	1468.0	1468.0	1469.7
32.5°	2766.3	1964.3	1299.9	1306.5	1353.5	1383.1	1385.6	1366.7	1352.6	1329.6	1328.7
35°	2877.6	1907.4	1252.1	1271.0	1309.0	1327.1	1319.7	1283.4	1249.6	1211.7	1210.0
37.5°	2980.6	1848.9	1211.7	1234.8	1258.7	1271.9	1254.6	1210.9	1182.8	1144.1	1138.3
40°	3065.5	1796.1	1173.0	1196.9	1208.4	1219.9	1191.9	1156.5	1160.6	1139.2	1138.3
42.5°	3115.0	1745.0	1136.7	1154.8	1162.2	1170.5	1145.8	1119.4	1141.6	1125.1	1126.0
45°	3151.2	1700.5	1103.7	1110.3	1128.4	1140.8	1117.7	1088.1	1093.0	1029.5	1014.7
47.5°	3192.4	1675.8	1072.4	1065.8	1097.9	1119.4	1083.9	1041.1	1011.4	948.7	943.0
50°	3236.1	1666.7	1039.4	1021.3	1060.0	1080.6	1039.4	985.8	947.1	913.3	910.0
52.5°	3251.0	1665.9	998.2	967.7	1006.4	1035.3	1000.7	946.3	900.1	867.1	865.5
55°	3309.5	1689.8	945.5	894.3	930.6	990.0	964.4	886.1	849.0	834.2	832.5
57.5°	3377.9	1693.9	862.2	814.4	864.7	934.7	902.6	835.0	794.6	776.5	774.8
60°	3349.9	1592.5	773.2	753.4	808.6	882.8	853.1	794.6	747.6	730.3	728.7
62.5°	2552.8	1124.3	708.1	700.6	748.4	807.8	802.0	741.0	696.5	684.2	682.5
65°	1535.6	789.7	645.4	644.6	678.4	735.3	742.7	693.2	646.2	628.9	628.9
67.5°	759.2	604.2	574.5	570.4	591.8	632.2	663.5	623.2	583.6	567.1	564.6
70°	536.6	532.5	522.6	511.1	515.2	531.7	544.8	511.1	469.0	452.5	449.2
72.5°	464.1	464.9	458.3	449.2	445.9	434.4	422.9	398.1	372.6	355.3	356.9
75°	360.2	361.9	366.0	362.7	353.6	341.3	328.9	297.6	277.0	260.5	257.2
77.5°	210.2	218.4	231.6	228.3	230.0	212.7	207.7	177.2	158.3	146.7	144.2
80°	118.7	123.6	129.4	133.5	128.6	121.2	110.5	94.0	88.2	80.0	78.3
82.5°	71.7	76.7	79.1	82.4	80.8	70.9	62.6	51.9	47.0	42.9	42.0
85°	36.3	39.6	42.0	43.7	38.7	32.1	28.8	23.1	19.8	17.3	17.3
87.5°	9.1	9.9	11.5	9.9	9.1	4.1	3.3	0.8	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)