

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: P642947

Luminaire Tested: GWS-SA6D-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-830-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19075.6 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

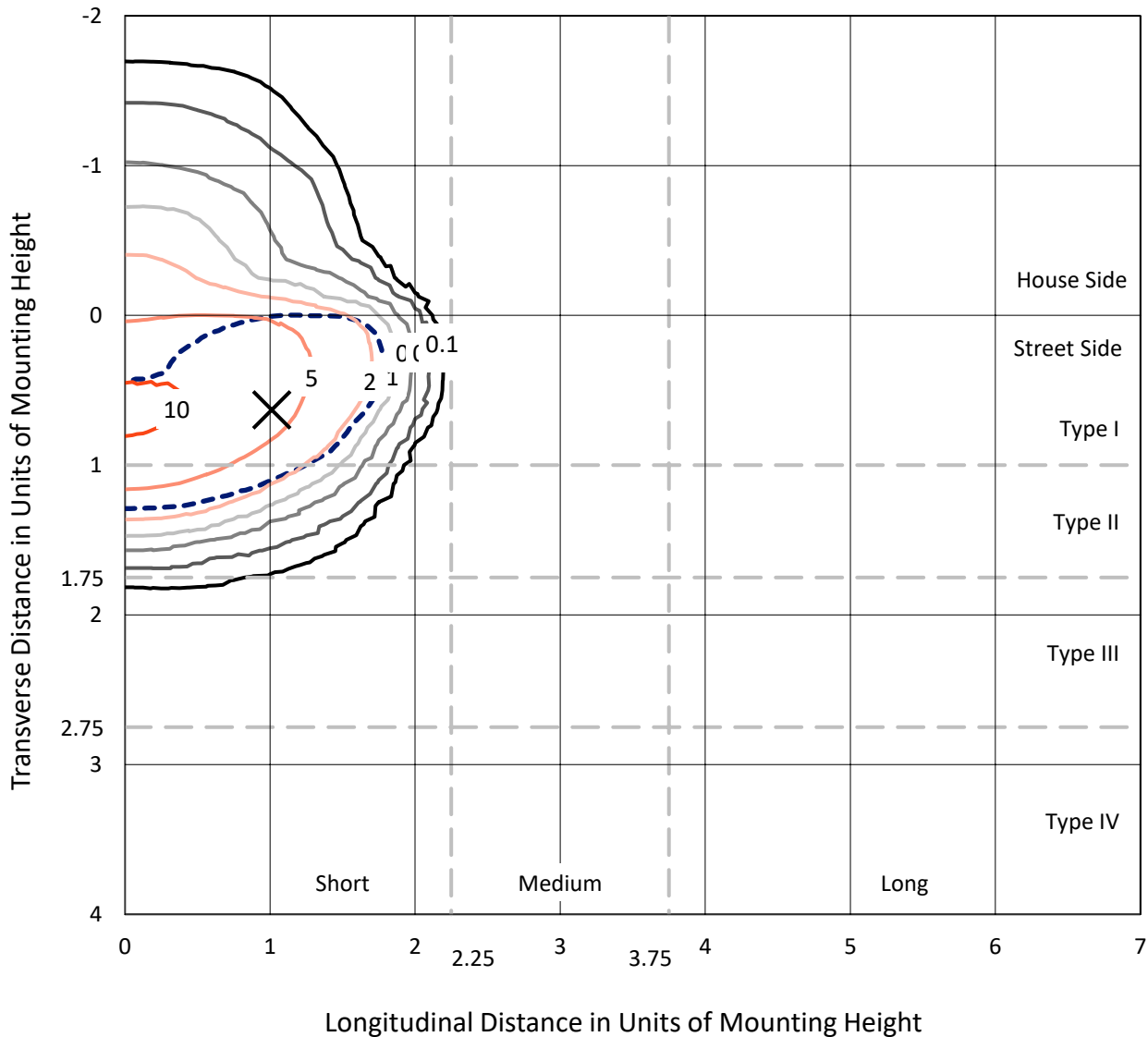
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

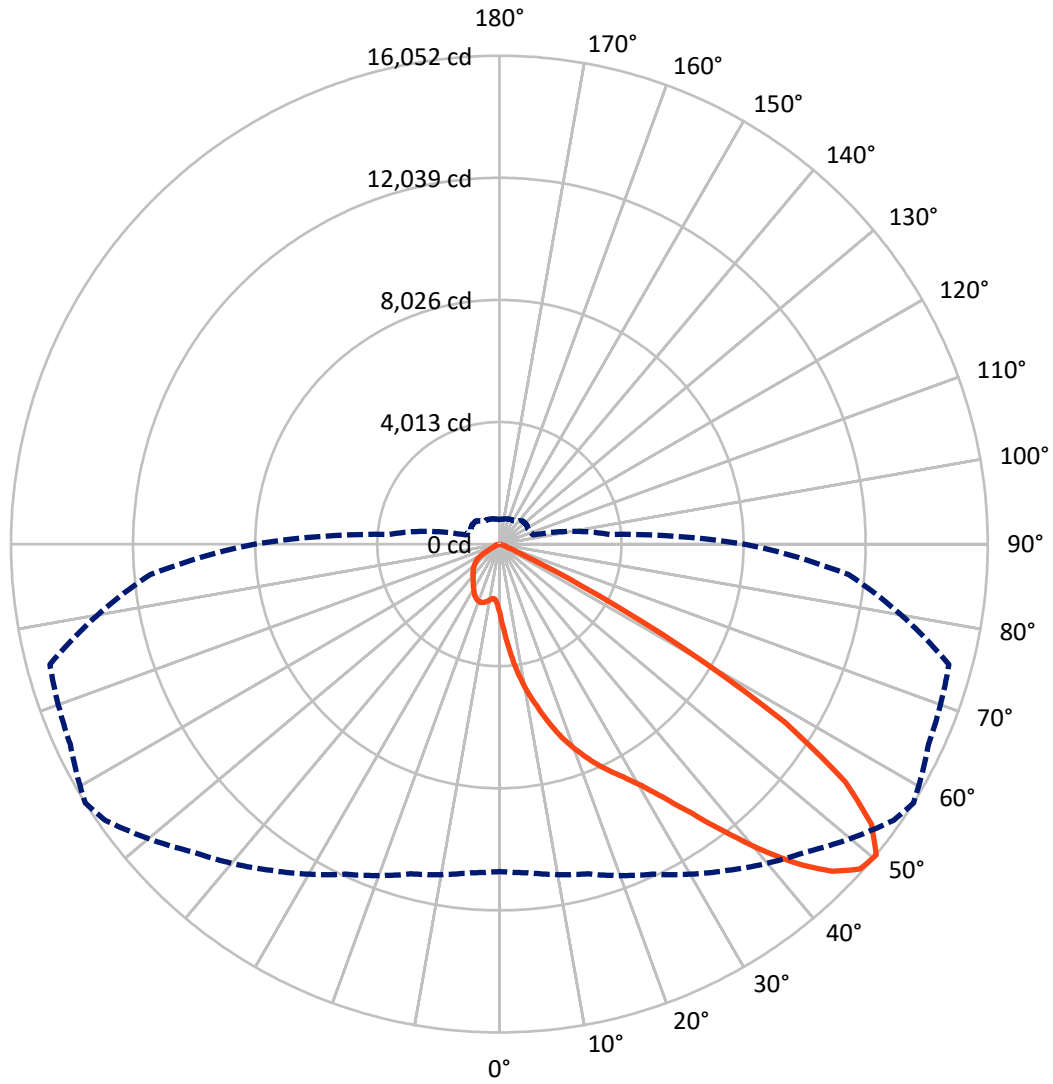
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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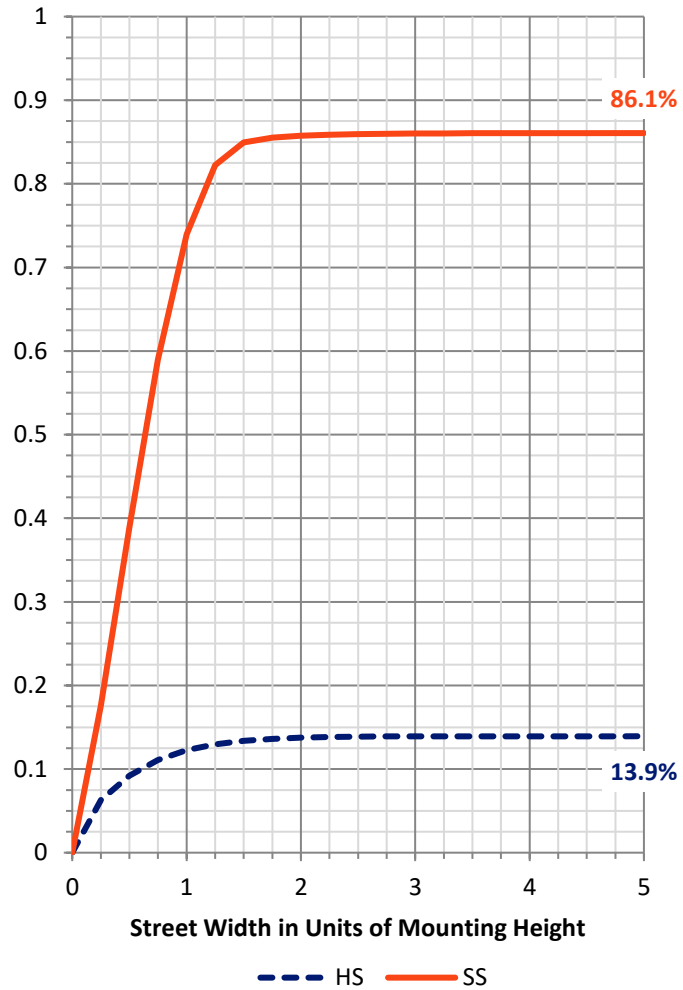
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2671.8	0.0	2671.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	16403.8	0.0	16403.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	19075.6	0.0	19075.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.3	1.5
10°-20°	1117.5	5.9
20°-30°	2261.2	11.9
30°-40°	4000.3	21.0
40°-50°	5831.6	30.6
50°-60°	4674.2	24.5
60°-70°	842.1	4.4
70°-80°	66.4	0.3
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°	19075.6	100.0
0°-180°	19075.6	100.0

Coefficient of Utilization



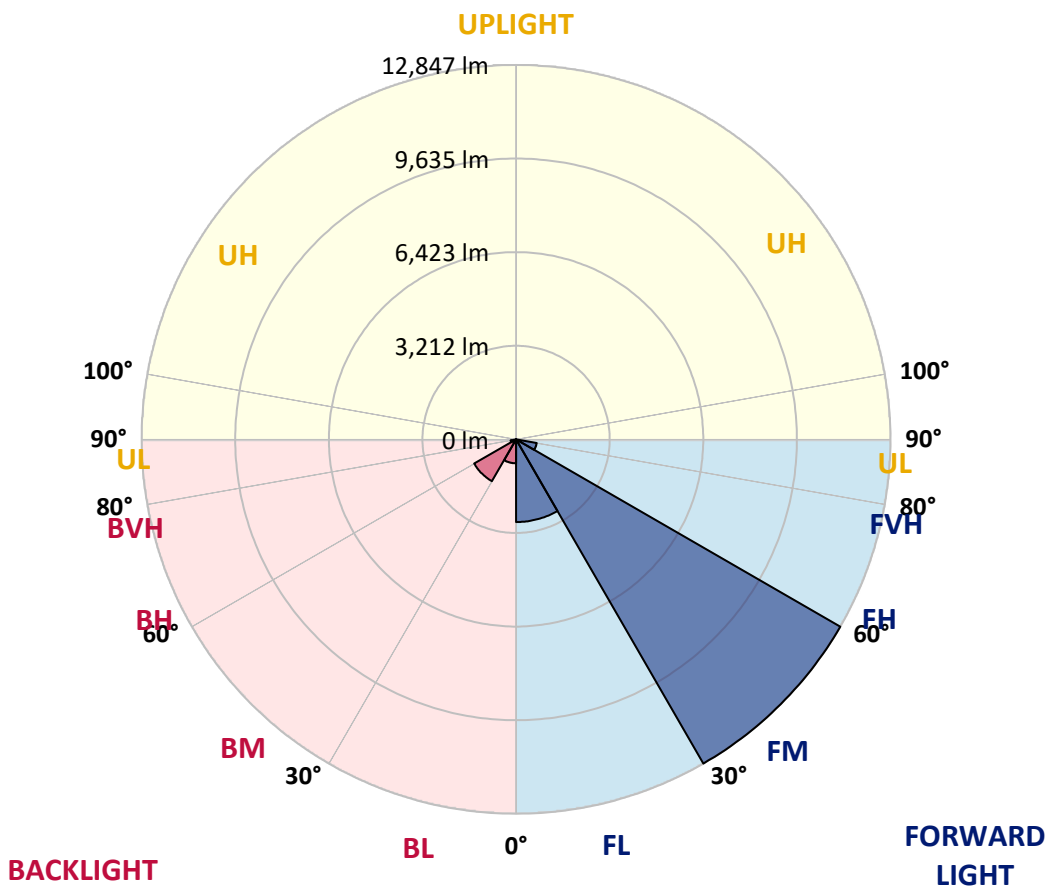
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2838.4	14.9			
FM (30°-60°)	12846.8	67.3			
FH (60°-80°)	718.6	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	822.5	4.3	B2/1000		
BM (30°-60°)	1659.3	8.7	B2/2500		
BH (60°-80°)	189.9	1.0	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°	58°	65°	75°	85°
0°	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5
2.5°	3371.9	3318.9	3288.3	3263.8	3155.7	2984.3	2872.2	2813.0	2715.1	2549.9	2407.1
5°	4400.0	4361.3	4289.9	4240.9	4102.2	3859.5	3608.6	3508.6	3286.2	2913.0	2578.4
7.5°	5081.3	5052.8	5026.3	4961.0	4830.4	4610.1	4332.7	4228.7	3886.0	3355.6	2806.9
10°	5605.6	5583.2	5552.6	5550.5	5448.5	5250.7	4979.4	4871.2	4500.0	3837.0	3076.1
12.5°	6066.6	6048.2	6042.1	6099.2	6034.0	5887.1	5593.4	5458.7	5065.0	4328.6	3374.0
15°	6382.8	6378.7	6405.2	6517.4	6554.1	6486.8	6240.0	6095.2	5642.3	4822.3	3702.4
17.5°	6527.6	6539.9	6590.9	6784.6	6947.8	7005.0	6815.2	6692.9	6215.5	5322.1	4053.2
20°	6774.4	6770.4	6801.0	6984.6	7184.5	7388.5	7331.3	7227.3	6794.8	5850.4	4442.9
22.5°	7470.0	7410.9	7345.6	7374.2	7445.6	7684.2	7790.3	7737.3	7392.5	6393.0	4844.7
25°	8538.9	8477.7	8267.6	8063.7	7929.0	8037.1	8182.0	8208.5	7986.1	6949.9	5264.9
27.5°	9673.1	9618.0	9381.4	9075.4	8689.9	8502.2	8610.3	8663.4	8569.5	7612.8	5711.7
30°	10735.9	10662.5	10403.4	10024.0	9577.2	9289.6	9167.2	9203.9	9259.0	8398.2	6235.9
32.5°	11657.9	11602.8	11292.8	10893.0	10462.6	10162.7	9877.1	9938.3	10072.9	9359.0	6907.0
35°	12439.2	12410.6	12082.2	11684.4	11229.5	11076.6	10831.8	10844.0	10978.6	10519.7	7725.0
37.5°	13118.5	13069.5	12771.7	12402.5	12041.4	12016.9	11949.6	11955.7	12025.1	11872.1	8665.4
40°	13546.9	13502.0	13289.8	13061.4	12804.3	12808.4	13157.2	13183.8	13104.2	13200.1	9658.8
42.5°	13708.0	13675.4	13561.1	13563.2	13536.7	13657.0	14311.8	14360.8	14075.2	14242.5	10507.4
45°	13428.5	13414.3	13422.4	13716.2	14034.4	14405.6	15256.3	15341.9	14938.1	14934.0	11170.4
47.5°	12526.9	12498.4	12737.0	13236.8	13973.2	14695.3	15827.4	15960.0	15541.9	15329.7	11586.5
50°	10760.4	10842.0	11219.3	11970.0	13089.9	14297.5	15821.3	16051.8	15564.3	15295.0	11517.2
52.5°	7794.4	7778.1	8604.2	9636.4	10999.0	13024.6	14980.9	15317.5	15019.6	14954.4	11362.1
55°	4240.9	4389.8	4946.7	6313.4	8014.7	10615.5	13061.4	13795.7	14140.5	14829.9	11641.6
57.5°	1558.5	1623.7	1972.6	2939.5	4243.0	6601.1	9977.1	11084.7	12149.5	14483.2	11594.7
60°	628.3	640.5	779.2	1081.1	1782.9	3359.7	5985.0	6968.2	7971.9	11086.8	8898.0
62.5°	456.9	473.3	528.3	632.4	901.6	1468.7	2580.5	3000.7	3280.1	5491.4	4383.7
65°	369.2	381.5	426.3	473.3	595.6	789.4	832.3	801.7	797.6	1419.8	1005.7
67.5°	306.0	318.2	350.9	383.5	428.4	393.7	285.6	299.9	244.8	242.7	197.9
70°	224.4	238.7	271.3	306.0	257.0	106.1	165.2	244.8	185.6	155.0	151.0
72.5°	169.3	179.5	210.1	199.9	75.5	40.8	110.2	177.5	142.8	114.2	112.2
75°	126.5	132.6	106.1	32.6	8.2	10.2	40.8	73.4	79.6	65.3	65.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.1	6.1	8.2	10.2	12.2
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°	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5
2.5°	2325.5	2239.8	2117.4	2015.4	1937.9	1862.4	1805.3	1748.2	1746.1	1717.6	1711.5
5°	2423.4	2268.3	2044.0	1882.8	1784.9	1725.7	1684.9	1664.5	1654.3	1644.1	1640.1
7.5°	2564.1	2341.8	2031.7	1860.4	1778.8	1740.0	1711.5	1699.2	1693.1	1684.9	1682.9
10°	2737.5	2447.9	2076.6	1903.2	1831.8	1795.1	1764.5	1746.1	1735.9	1721.7	1717.6
12.5°	2945.6	2578.4	2148.0	1974.6	1899.1	1850.2	1809.4	1782.9	1768.6	1750.2	1746.1
15°	3170.0	2719.2	2227.6	2039.9	1950.1	1886.9	1835.9	1795.1	1768.6	1746.1	1740.0
17.5°	3402.5	2862.0	2298.9	2084.8	1974.6	1899.1	1825.7	1770.6	1738.0	1709.4	1701.3
20°	3663.6	3008.8	2345.9	2092.9	1966.4	1866.5	1780.8	1711.5	1678.8	1640.1	1631.9
22.5°	3937.0	3145.5	2366.3	2074.6	1921.6	1805.3	1713.5	1642.1	1595.2	1554.4	1542.2
25°	4202.2	3267.9	2356.1	2023.6	1854.3	1719.6	1625.8	1552.3	1501.4	1460.6	1450.4
27.5°	4483.7	3369.9	2319.3	1948.1	1762.5	1625.8	1536.0	1472.8	1425.9	1381.0	1370.8
30°	4799.8	3463.7	2260.2	1856.3	1654.3	1529.9	1460.6	1417.7	1366.7	1319.8	1305.5
32.5°	5181.3	3547.4	2174.5	1746.1	1558.5	1446.3	1407.5	1374.9	1315.7	1266.8	1256.6
35°	5617.8	3616.7	2066.4	1631.9	1464.6	1393.2	1385.1	1342.2	1264.7	1207.6	1195.4
37.5°	6123.7	3684.0	1937.9	1519.7	1395.3	1368.8	1370.8	1297.4	1203.5	1134.2	1126.0
40°	6668.4	3751.3	1795.1	1421.8	1332.0	1354.5	1336.1	1232.1	1079.1	1011.8	1003.6
42.5°	7235.5	3824.8	1650.3	1330.0	1279.0	1299.4	1272.9	1101.5	991.4	956.7	952.6
45°	7747.5	3912.5	1493.2	1238.2	1226.0	1219.8	1175.0	997.5	950.6	926.1	924.1
47.5°	8116.7	3898.2	1325.9	1150.5	1168.9	1148.5	1011.8	948.5	909.8	877.1	869.0
50°	8049.4	3649.3	1152.5	1052.6	1095.4	1077.1	909.8	891.4	856.8	822.1	809.8
52.5°	7878.0	3310.7	1001.6	948.5	1015.9	973.0	840.4	822.1	791.5	746.6	732.3
55°	7969.8	2992.5	883.3	864.9	934.3	805.8	762.9	734.4	701.7	652.8	646.6
57.5°	7674.0	2441.7	709.9	722.1	826.2	687.4	669.1	624.2	569.1	536.5	532.4
60°	5311.9	1311.6	444.7	459.0	597.7	577.3	599.7	558.9	491.6	461.0	454.9
62.5°	2439.7	526.3	242.7	232.5	314.1	391.7	514.1	510.0	426.3	377.4	373.3
65°	591.6	240.7	173.4	163.2	177.5	234.6	334.5	401.9	344.7	287.6	281.5
67.5°	191.7	195.8	159.1	148.9	157.1	175.4	199.9	222.3	220.3	201.9	197.9
70°	153.0	177.5	146.9	134.6	134.6	140.8	134.6	108.1	93.8	102.0	106.1
72.5°	114.2	134.6	116.3	104.0	100.0	97.9	83.6	61.2	42.8	38.8	36.7
75°	67.3	75.5	71.4	61.2	57.1	51.0	40.8	26.5	14.3	10.2	6.1
77.5°	12.2	14.3	16.3	12.2	10.2	8.2	6.1	2.0	0.0	0.0	0.0
80°	0.0	2.0	2.0	2.0	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

(END OF REPORT)