

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: P634037

Luminaire Tested: GWS-SA2F-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634037
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-SA2F-830-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY 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: 8638.8 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

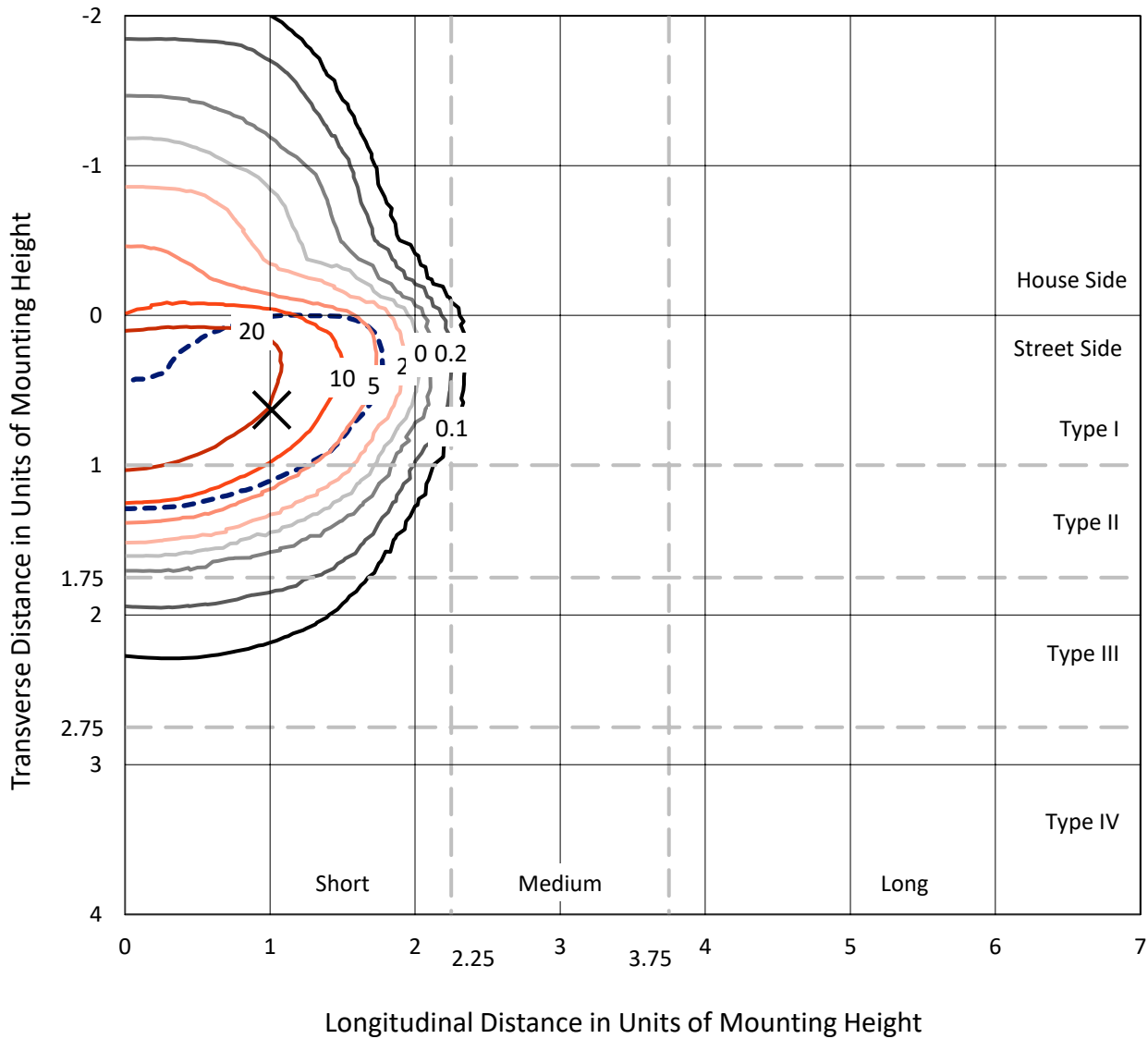
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

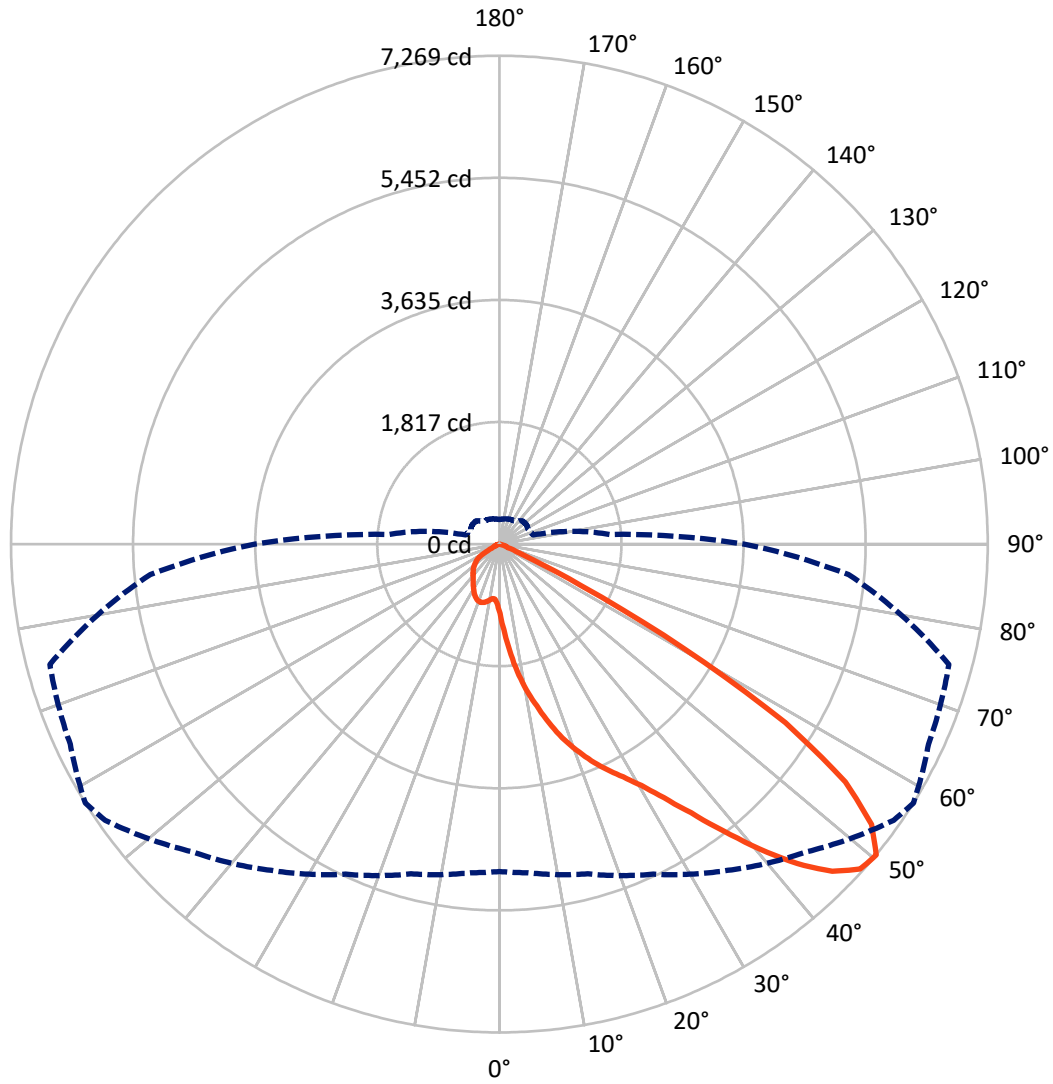
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 31.7 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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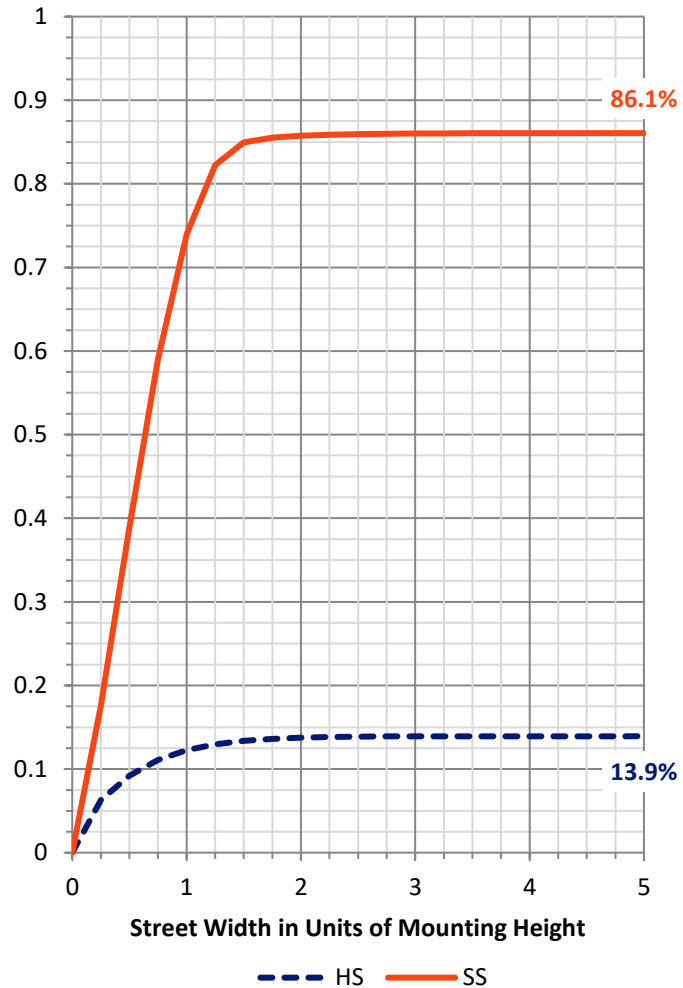
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1210.0	0.0	1210.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	7428.8	0.0	7428.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	8638.8	0.0	8638.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	1.5
10°-20°	506.1	5.9
20°-30°	1024.0	11.9
30°-40°	1811.6	21.0
40°-50°	2641.0	30.6
50°-60°	2116.8	24.5
60°-70°	381.4	4.4
70°-80°	30.1	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°	8638.8	100.0
0°-180°	8638.8	100.0

Coefficient of Utilization



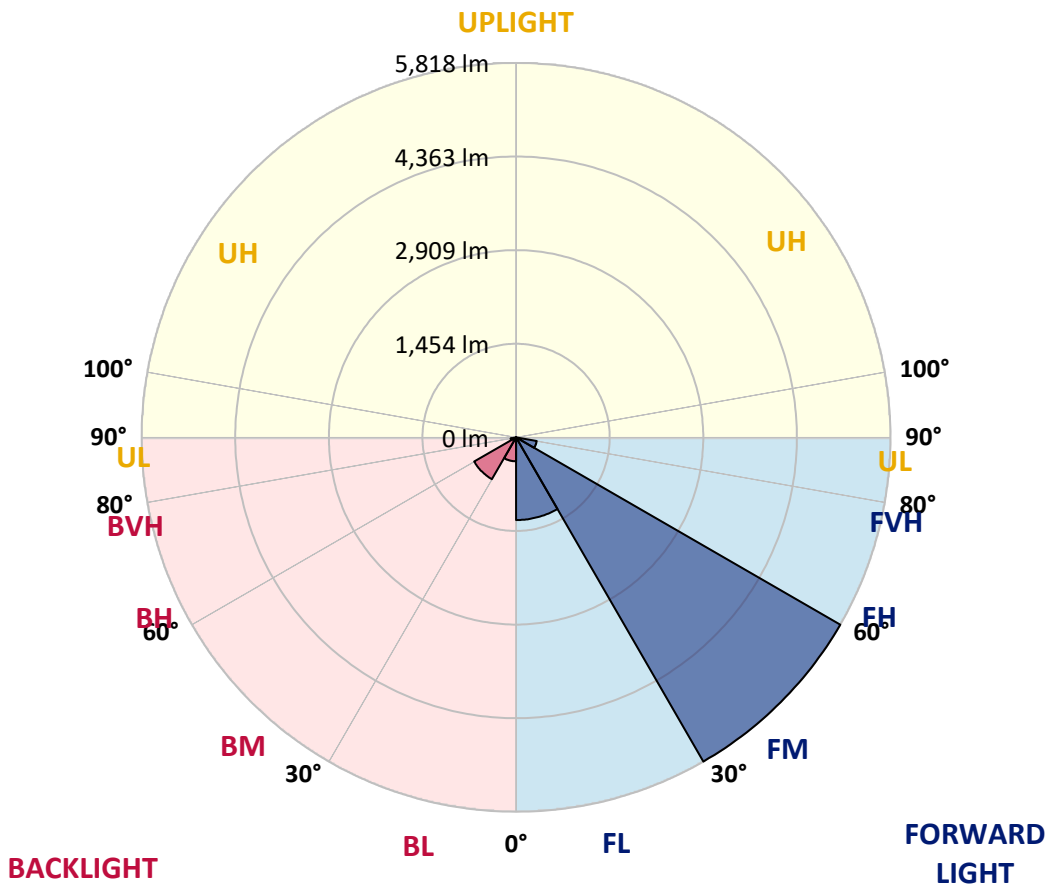
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1285.4	14.9			
FM (30°-60°)	5818.0	67.3			
FH (60°-80°)	325.4	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	372.5	4.3	B1/500		
BM (30°-60°)	751.5	8.7	B1/1000		
BH (60°-80°)	86.0	1.0	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°	55°	58°	65°	75°	85°
0°	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9
2.5°	1527.0	1503.0	1489.2	1478.1	1429.1	1351.5	1300.7	1273.9	1229.6	1154.8	1090.1
5°	1992.6	1975.1	1942.8	1920.6	1857.8	1747.8	1634.2	1588.9	1488.2	1319.2	1167.7
7.5°	2301.2	2288.3	2276.3	2246.7	2187.6	2087.8	1962.2	1915.0	1759.8	1519.7	1271.2
10°	2538.6	2528.5	2514.6	2513.7	2467.5	2377.9	2255.0	2206.0	2037.9	1737.7	1393.1
12.5°	2747.4	2739.1	2736.3	2762.2	2732.6	2666.1	2533.1	2472.1	2293.8	1960.3	1528.0
15°	2890.6	2888.7	2900.7	2951.6	2968.2	2937.7	2825.9	2760.3	2555.2	2183.9	1676.7
17.5°	2956.2	2961.7	2984.8	3072.6	3146.5	3172.3	3086.4	3031.0	2814.8	2410.2	1835.6
20°	3068.0	3066.1	3080.0	3163.1	3253.6	3346.0	3320.2	3273.0	3077.2	2649.5	2012.0
22.5°	3383.0	3356.2	3326.6	3339.6	3371.9	3480.0	3528.0	3504.0	3347.9	2895.2	2194.0
25°	3867.0	3839.3	3744.2	3651.8	3590.8	3639.8	3705.4	3717.4	3616.7	3147.4	2384.3
27.5°	4380.7	4355.7	4248.6	4110.0	3935.4	3850.4	3899.4	3923.4	3880.9	3447.6	2586.7
30°	4862.0	4828.7	4711.4	4539.6	4337.3	4207.0	4151.6	4168.2	4193.1	3803.3	2824.1
32.5°	5279.5	5254.6	5114.2	4933.1	4738.2	4602.4	4473.1	4500.8	4561.7	4238.4	3128.0
35°	5633.4	5620.4	5471.7	5291.6	5085.5	5016.3	4905.4	4910.9	4971.9	4764.1	3498.4
37.5°	5941.0	5918.8	5783.9	5616.7	5453.2	5442.1	5411.6	5414.4	5445.8	5376.5	3924.3
40°	6135.0	6114.7	6018.6	5915.1	5798.7	5800.6	5958.5	5970.5	5934.5	5977.9	4374.2
42.5°	6208.0	6193.2	6141.5	6142.4	6130.4	6184.9	6481.4	6503.6	6374.3	6450.0	4758.5
45°	6081.4	6074.9	6078.6	6211.7	6355.8	6523.9	6909.1	6947.9	6765.0	6763.2	5058.8
47.5°	5673.1	5660.2	5768.2	5994.6	6328.1	6655.1	7167.8	7227.8	7038.5	6942.4	5247.2
50°	4873.1	4910.0	5080.9	5420.9	5928.1	6474.9	7165.0	7269.4	7048.6	6926.7	5215.8
52.5°	3529.9	3522.5	3896.6	4364.1	4981.2	5898.5	6784.4	6936.8	6802.0	6772.4	5145.6
55°	1920.6	1988.0	2240.2	2859.2	3629.6	4807.5	5915.1	6247.7	6403.8	6716.1	5272.2
57.5°	705.8	735.3	893.3	1331.2	1921.5	2989.4	4518.3	5020.0	5502.2	6559.0	5250.9
60°	284.5	290.1	352.9	489.6	807.4	1521.5	2710.4	3155.7	3610.2	5020.9	4029.6
62.5°	206.9	214.3	239.3	286.4	408.3	665.1	1168.6	1358.9	1485.5	2486.9	1985.3
65°	167.2	172.8	193.1	214.3	269.8	357.5	376.9	363.1	361.2	643.0	455.4
67.5°	138.6	144.1	158.9	173.7	194.0	178.3	129.3	135.8	110.9	109.9	89.6
70°	101.6	108.1	122.9	138.6	116.4	48.0	74.8	110.9	84.1	70.2	68.4
72.5°	76.7	81.3	95.2	90.5	34.2	18.5	49.9	80.4	64.7	51.7	50.8
75°	57.3	60.0	48.0	14.8	3.7	4.6	18.5	33.3	36.0	29.6	29.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	2.8	3.7	4.6	5.5
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°	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9	1031.9
2.5°	1053.1	1014.3	958.9	912.7	877.6	843.4	817.6	791.7	790.8	777.8	775.1
5°	1097.5	1027.3	925.7	852.7	808.3	781.5	763.1	753.8	749.2	744.6	742.7
7.5°	1161.2	1060.5	920.1	842.5	805.6	788.0	775.1	769.5	766.8	763.1	762.1
10°	1239.7	1108.6	940.4	861.9	829.6	812.9	799.1	790.8	786.2	779.7	777.8
12.5°	1334.0	1167.7	972.8	894.2	860.1	837.9	819.4	807.4	800.9	792.6	790.8
15°	1435.6	1231.4	1008.8	923.8	883.2	854.5	831.4	812.9	800.9	790.8	788.0
17.5°	1540.9	1296.1	1041.1	944.1	894.2	860.1	826.8	801.9	787.1	774.1	770.5
20°	1659.2	1362.6	1062.4	947.8	890.5	845.3	806.5	775.1	760.3	742.7	739.0
22.5°	1782.9	1424.5	1071.6	939.5	870.2	817.6	776.0	743.7	722.4	703.9	698.4
25°	1903.0	1479.9	1067.0	916.4	839.7	778.8	736.3	703.0	679.9	661.4	656.8
27.5°	2030.5	1526.1	1050.4	882.2	798.2	736.3	695.6	667.0	645.7	625.4	620.8
30°	2173.7	1568.6	1023.6	840.7	749.2	692.9	661.4	642.0	618.9	597.7	591.2
32.5°	2346.5	1606.5	984.8	790.8	705.8	655.0	637.4	622.6	595.9	573.7	569.1
35°	2544.2	1637.9	935.8	739.0	663.3	631.0	627.3	607.9	572.8	546.9	541.3
37.5°	2773.3	1668.4	877.6	688.2	631.9	619.9	620.8	587.5	545.0	513.6	509.9
40°	3019.9	1698.9	812.9	643.9	603.2	613.4	605.1	558.0	488.7	458.2	454.5
42.5°	3276.7	1732.1	747.4	602.3	579.2	588.5	576.5	498.9	449.0	433.3	431.4
45°	3508.6	1771.9	676.2	560.7	555.2	552.4	532.1	451.7	430.5	419.4	418.5
47.5°	3675.8	1765.4	600.5	521.0	529.3	520.1	458.2	429.6	412.0	397.2	393.5
50°	3645.3	1652.7	521.9	476.7	496.1	487.8	412.0	403.7	388.0	372.3	366.8
52.5°	3567.7	1499.3	453.6	429.6	460.1	440.7	380.6	372.3	358.4	338.1	331.6
55°	3609.3	1355.2	400.0	391.7	423.1	364.9	345.5	332.6	317.8	295.6	292.8
57.5°	3475.4	1105.8	321.5	327.0	374.1	311.3	303.0	282.7	257.7	243.0	241.1
60°	2405.6	594.0	201.4	207.9	270.7	261.4	271.6	253.1	222.6	208.8	206.0
62.5°	1104.9	238.3	109.9	105.3	142.3	177.4	232.8	231.0	193.1	170.9	169.1
65°	267.9	109.0	78.5	73.9	80.4	106.2	151.5	182.0	156.1	130.3	127.5
67.5°	86.8	88.7	72.1	67.4	71.1	79.4	90.5	100.7	99.8	91.5	89.6
70°	69.3	80.4	66.5	61.0	61.0	63.7	61.0	49.0	42.5	46.2	48.0
72.5°	51.7	61.0	52.7	47.1	45.3	44.3	37.9	27.7	19.4	17.6	16.6
75°	30.5	34.2	32.3	27.7	25.9	23.1	18.5	12.0	6.5	4.6	2.8
77.5°	5.5	6.5	7.4	5.5	4.6	3.7	2.8	0.9	0.0	0.0	0.0
80°	0.0	0.9	0.9	0.9	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)