

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: P631287

Luminaire Tested: GWS-SA1F-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631287
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-SA1F-735-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5570.2 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

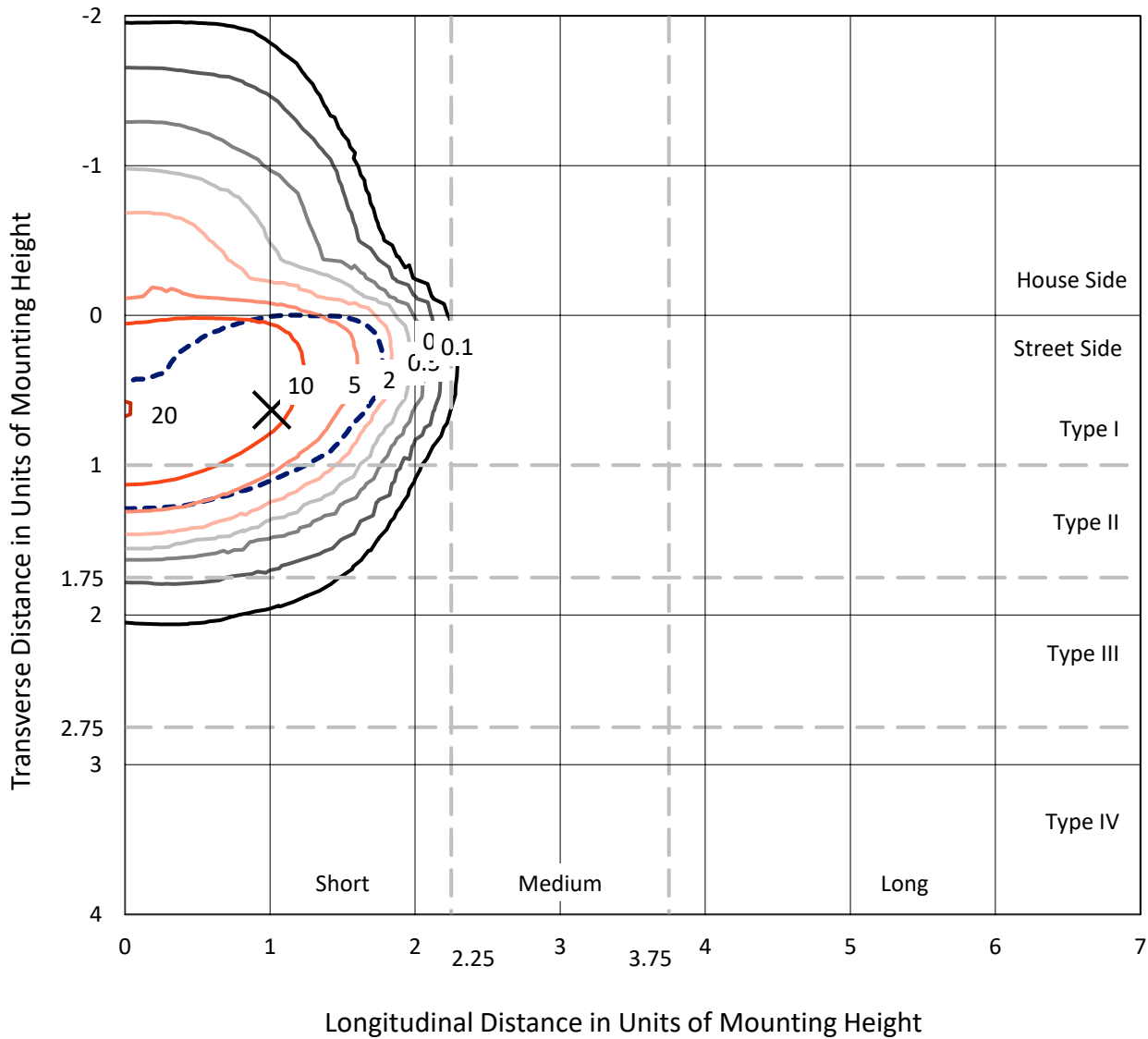
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

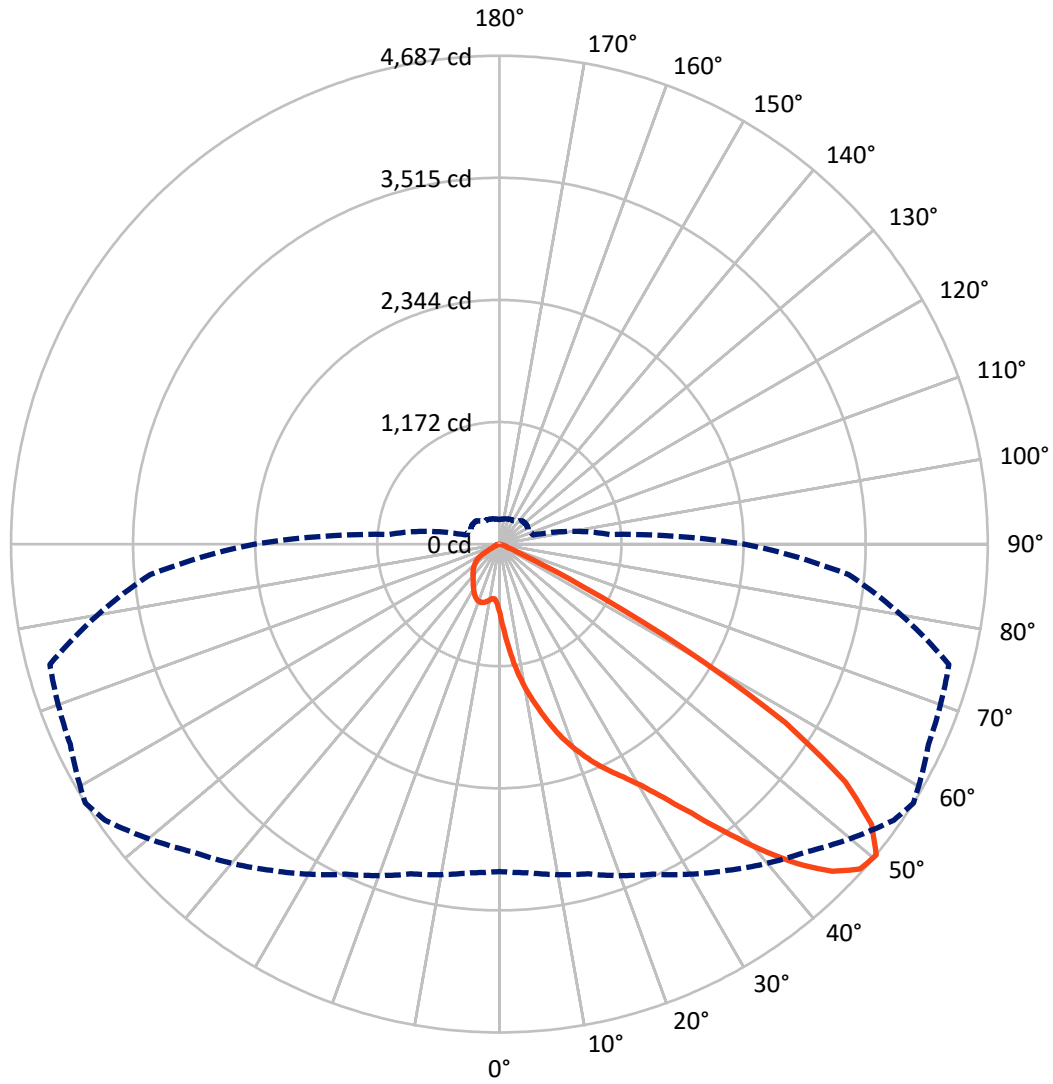
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.4 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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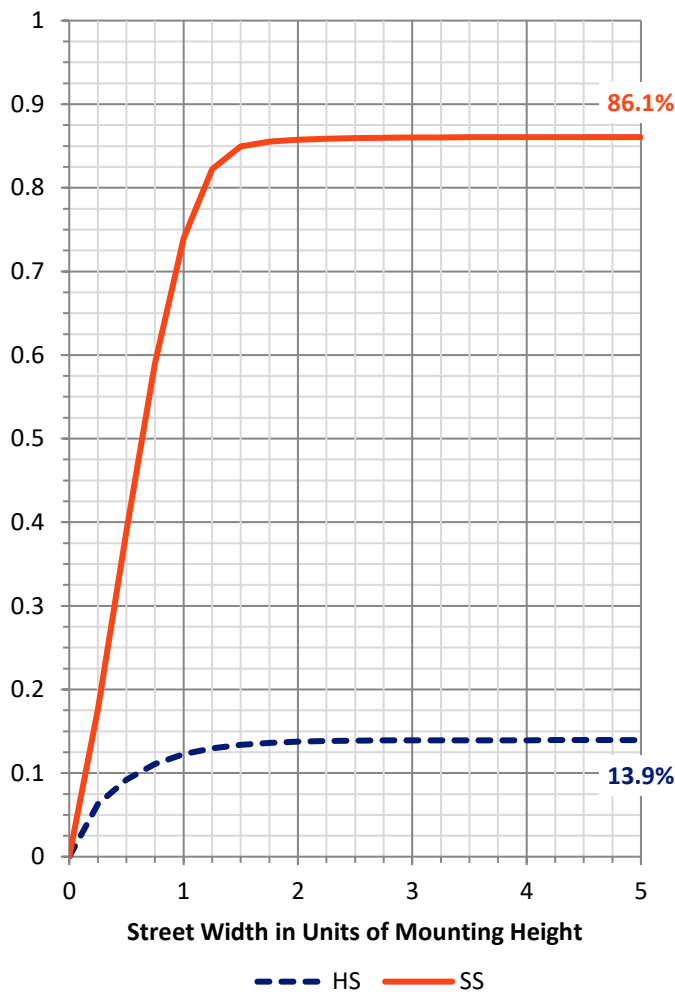
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	780.2	0.0	780.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4790.0	0.0	4790.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	5570.2	0.0	5570.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	1.5
10°-20°	326.3	5.9
20°-30°	660.3	11.9
30°-40°	1168.1	21.0
40°-50°	1702.9	30.6
50°-60°	1364.9	24.5
60°-70°	245.9	4.4
70°-80°	19.4	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°	5570.2	100.0
0°-180°	5570.2	100.0

Coefficient of Utilization



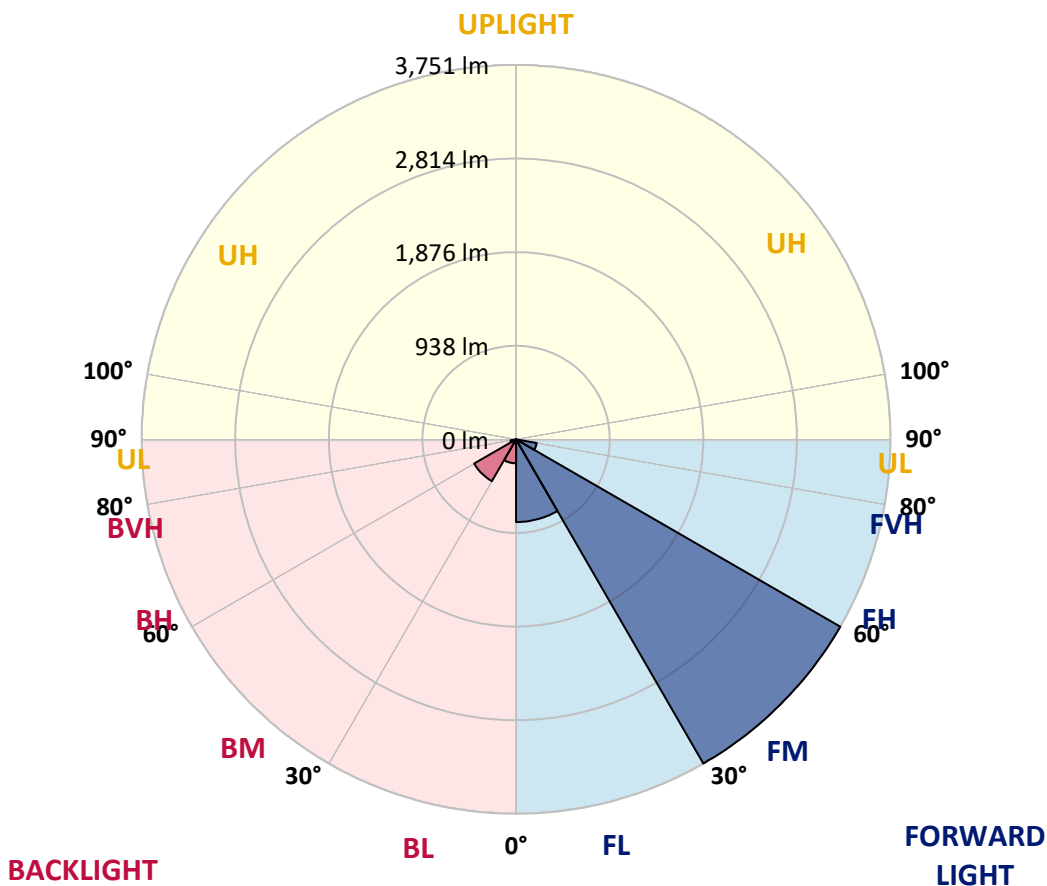
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	828.8	14.9			
FM (30°-60°)	3751.4	67.3			
FH (60°-80°)	209.8	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	240.2	4.3	B1/500		
BM (30°-60°)	484.5	8.7	B1/1000		
BH (60°-80°)	55.5	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°	665.4	665.4	665.4	665.4	665.4	665.4	665.4	665.4	665.4	665.4	665.4
2.5°	984.6	969.1	960.2	953.1	921.5	871.4	838.7	821.4	792.8	744.6	702.9
5°	1284.8	1273.5	1252.7	1238.4	1197.9	1127.0	1053.7	1024.5	959.6	850.6	752.9
7.5°	1483.8	1475.4	1467.7	1448.6	1410.5	1346.2	1265.2	1234.8	1134.7	979.9	819.6
10°	1636.9	1630.3	1621.4	1620.8	1591.0	1533.2	1454.0	1422.4	1314.0	1120.4	898.3
12.5°	1771.5	1766.1	1764.3	1781.0	1762.0	1719.1	1633.3	1594.0	1479.0	1264.0	985.2
15°	1863.8	1862.6	1870.4	1903.1	1913.9	1894.2	1822.1	1779.8	1647.6	1408.1	1081.1
17.5°	1906.1	1909.7	1924.6	1981.2	2028.8	2045.5	1990.1	1954.4	1815.0	1554.1	1183.6
20°	1978.2	1977.0	1985.9	2039.5	2097.9	2157.5	2140.8	2110.4	1984.1	1708.3	1297.3
22.5°	2181.3	2164.0	2145.0	2153.3	2174.2	2243.8	2274.8	2259.3	2158.7	1866.8	1414.7
25°	2493.4	2475.6	2414.2	2354.6	2315.3	2346.9	2389.2	2396.9	2332.0	2029.4	1537.4
27.5°	2824.6	2808.5	2739.4	2650.1	2537.5	2482.7	2514.3	2529.8	2502.4	2223.0	1667.8
30°	3135.0	3113.5	3037.9	2927.1	2796.6	2712.6	2676.9	2687.6	2703.7	2452.3	1820.9
32.5°	3404.2	3388.1	3297.6	3180.8	3055.1	2967.6	2884.2	2902.0	2941.4	2732.9	2016.9
35°	3632.3	3624.0	3528.1	3411.9	3279.1	3234.4	3162.9	3166.5	3205.8	3071.8	2255.8
37.5°	3830.7	3816.4	3729.4	3621.6	3516.2	3509.0	3489.4	3491.2	3511.4	3466.7	2530.4
40°	3955.8	3942.7	3880.7	3814.0	3738.9	3740.1	3842.0	3849.7	3826.5	3854.5	2820.4
42.5°	4002.8	3993.3	3959.9	3960.5	3952.8	3987.9	4179.1	4193.4	4110.0	4158.9	3068.2
45°	3921.2	3917.1	3919.4	4005.2	4098.1	4206.5	4454.9	4479.9	4362.0	4360.8	3261.8
47.5°	3657.9	3649.6	3719.3	3865.2	4080.3	4291.1	4621.7	4660.4	4538.3	4476.4	3383.3
50°	3142.1	3165.9	3276.1	3495.3	3822.3	4175.0	4619.9	4687.2	4544.9	4466.2	3363.1
52.5°	2276.0	2271.2	2512.5	2813.9	3211.8	3803.3	4374.5	4472.8	4385.8	4366.8	3317.8
55°	1238.4	1281.9	1444.5	1843.6	2340.3	3099.8	3814.0	4028.4	4129.1	4330.4	3399.4
57.5°	455.1	474.1	576.0	858.3	1239.0	1927.6	2913.4	3236.8	3547.7	4229.2	3385.7
60°	183.5	187.0	227.5	315.7	520.6	981.0	1747.7	2034.8	2327.8	3237.4	2598.3
62.5°	133.4	138.2	154.3	184.7	263.3	428.9	753.5	876.2	957.8	1603.5	1280.1
65°	107.8	111.4	124.5	138.2	173.9	230.5	243.0	234.1	232.9	414.6	293.7
67.5°	89.3	92.9	102.5	112.0	125.1	115.0	83.4	87.6	71.5	70.9	57.8
70°	65.5	69.7	79.2	89.3	75.1	31.0	48.2	71.5	54.2	45.3	44.1
72.5°	49.4	52.4	61.4	58.4	22.0	11.9	32.2	51.8	41.7	33.4	32.8
75°	36.9	38.7	31.0	9.5	2.4	3.0	11.9	21.4	23.2	19.1	19.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.8	2.4	3.0	3.6
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°	665.4	665.4	665.4	665.4	665.4	665.4	665.4	665.4	665.4	665.4	665.4
2.5°	679.1	654.0	618.3	588.5	565.9	543.8	527.2	510.5	509.9	501.5	499.8
5°	707.6	662.4	596.9	549.8	521.2	503.9	492.0	486.1	483.1	480.1	478.9
7.5°	748.7	683.8	593.3	543.2	519.4	508.1	499.8	496.2	494.4	492.0	491.4
10°	799.4	714.8	606.4	555.7	534.9	524.2	515.2	509.9	506.9	502.7	501.5
12.5°	860.1	752.9	627.2	576.6	554.6	540.3	528.3	520.6	516.4	511.1	509.9
15°	925.7	794.0	650.5	595.7	569.4	551.0	536.1	524.2	516.4	509.9	508.1
17.5°	993.6	835.7	671.3	608.8	576.6	554.6	533.1	517.0	507.5	499.2	496.8
20°	1069.8	878.6	685.0	611.1	574.2	545.0	520.0	499.8	490.2	478.9	476.5
22.5°	1149.6	918.5	691.0	605.8	561.1	527.2	500.4	479.5	465.8	453.9	450.3
25°	1227.1	954.2	688.0	590.9	541.5	502.1	474.7	453.3	438.4	426.5	423.5
27.5°	1309.3	984.0	677.3	568.9	514.6	474.7	448.5	430.1	416.4	403.3	400.3
30°	1401.6	1011.4	660.0	542.0	483.1	446.7	426.5	414.0	399.1	385.4	381.2
32.5°	1513.0	1035.9	635.0	509.9	455.1	422.3	411.0	401.5	384.2	369.9	366.9
35°	1640.4	1056.1	603.4	476.5	427.7	406.8	404.5	391.9	369.3	352.6	349.1
37.5°	1788.2	1075.8	565.9	443.8	407.4	399.7	400.3	378.8	351.4	331.2	328.8
40°	1947.2	1095.4	524.2	415.2	389.0	395.5	390.2	359.8	315.1	295.4	293.1
42.5°	2112.8	1116.9	481.9	388.4	373.5	379.4	371.7	321.7	289.5	279.4	278.2
45°	2262.3	1142.5	436.0	361.6	358.0	356.2	343.1	291.3	277.6	270.4	269.8
47.5°	2370.1	1138.3	387.2	336.0	341.3	335.4	295.4	277.0	265.7	256.1	253.8
50°	2350.5	1065.6	336.5	307.4	319.9	314.5	265.7	260.3	250.2	240.1	236.5
52.5°	2300.4	966.8	292.5	277.0	296.6	284.1	245.4	240.1	231.1	218.0	213.8
55°	2327.2	873.8	257.9	252.6	272.8	235.3	222.8	214.4	204.9	190.6	188.8
57.5°	2240.9	713.0	207.3	210.9	241.2	200.7	195.4	182.3	166.2	156.7	155.5
60°	1551.1	383.0	129.9	134.0	174.5	168.6	175.1	163.2	143.6	134.6	132.8
62.5°	712.4	153.7	70.9	67.9	91.7	114.4	150.1	148.9	124.5	110.2	109.0
65°	172.7	70.3	50.6	47.7	51.8	68.5	97.7	117.3	100.7	84.0	82.2
67.5°	56.0	57.2	46.5	43.5	45.9	51.2	58.4	64.9	64.3	59.0	57.8
70°	44.7	51.8	42.9	39.3	39.3	41.1	39.3	31.6	27.4	29.8	31.0
72.5°	33.4	39.3	34.0	30.4	29.2	28.6	24.4	17.9	12.5	11.3	10.7
75°	19.7	22.0	20.8	17.9	16.7	14.9	11.9	7.7	4.2	3.0	1.8
77.5°	3.6	4.2	4.8	3.6	3.0	2.4	1.8	0.6	0.0	0.0	0.0
80°	0.0	0.6	0.6	0.6	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)