

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: P630792

Luminaire Tested: GWS-SA1E-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630792
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-SA1E-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: 5010 lumens
Efficiency: N/A
Efficacy: 85.8 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

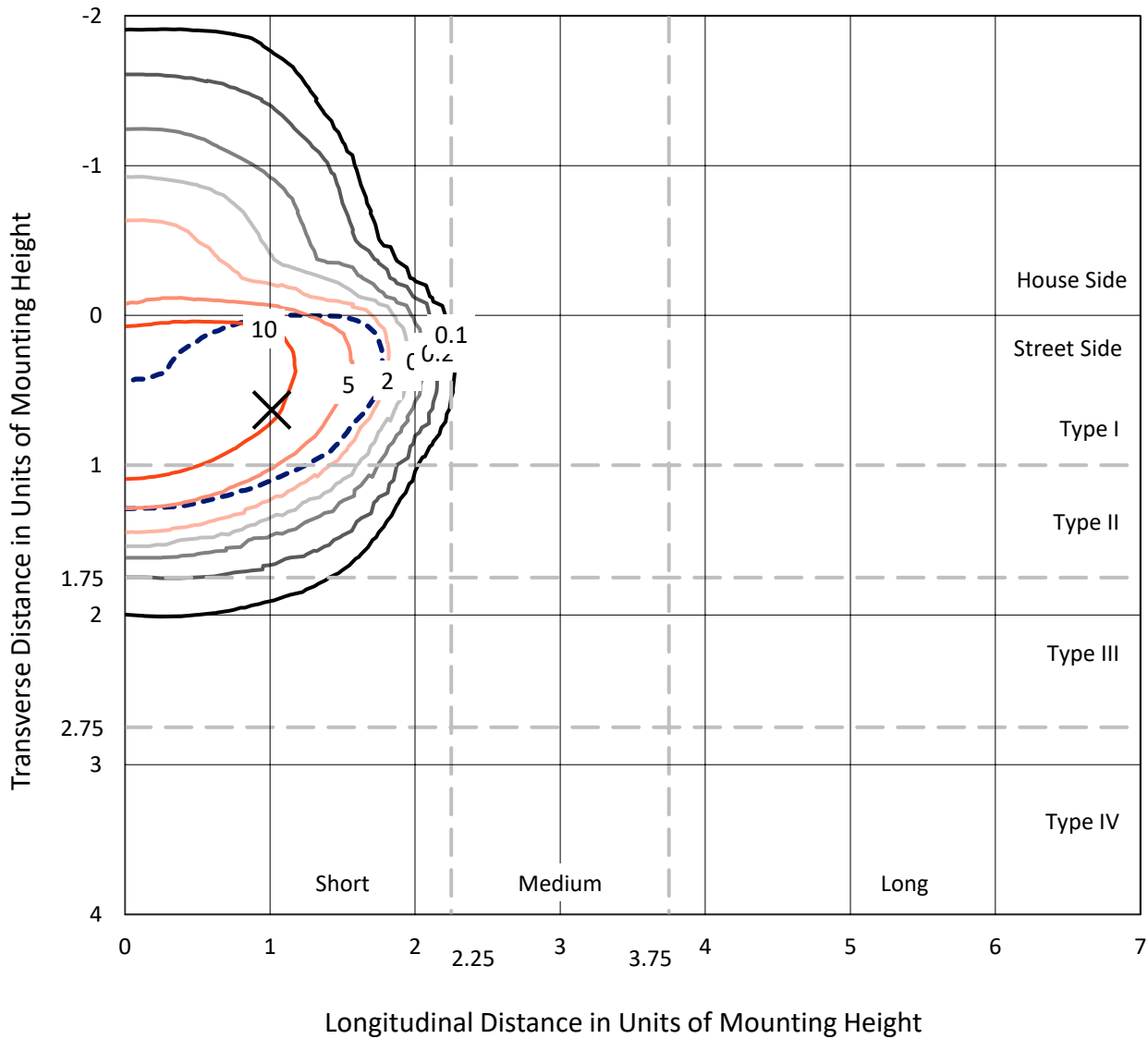
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

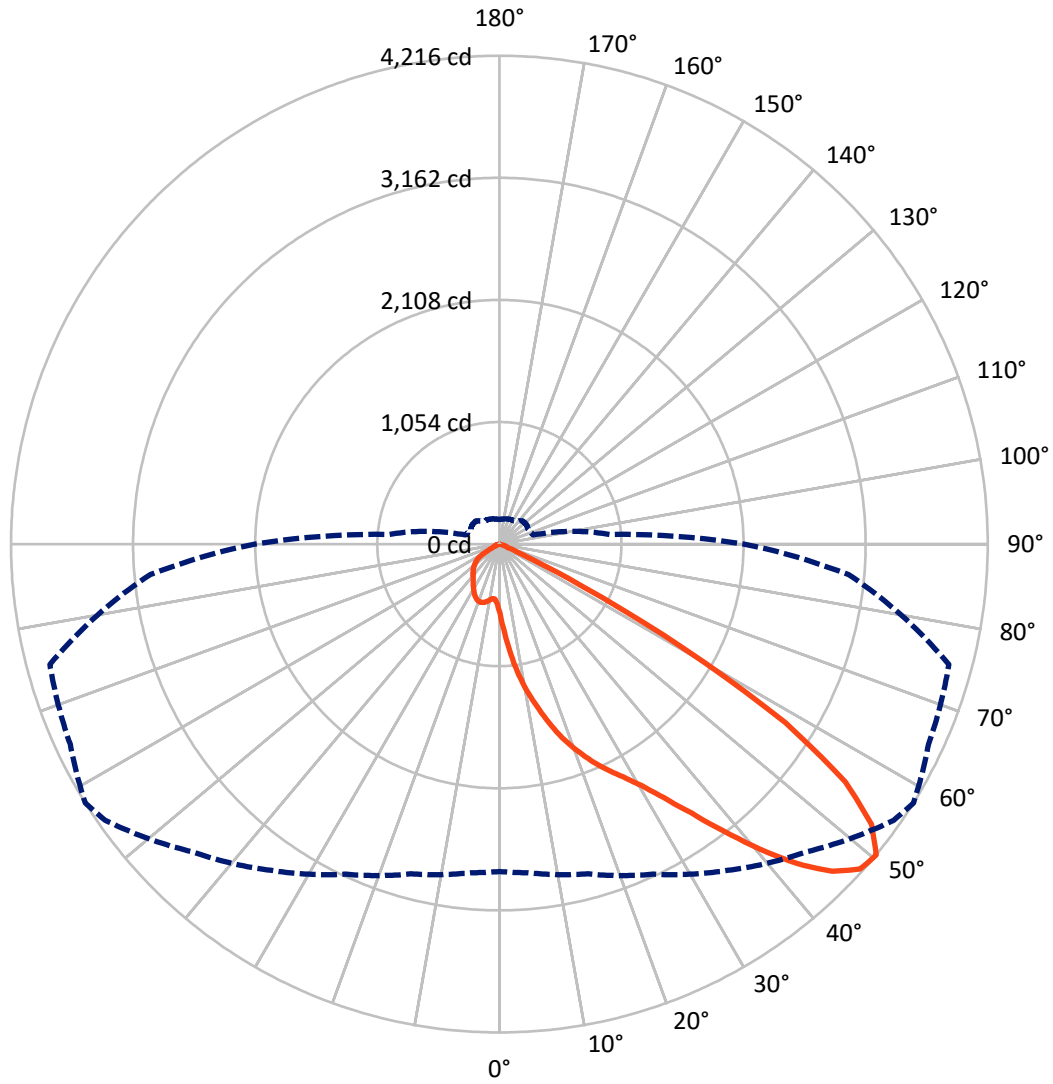
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 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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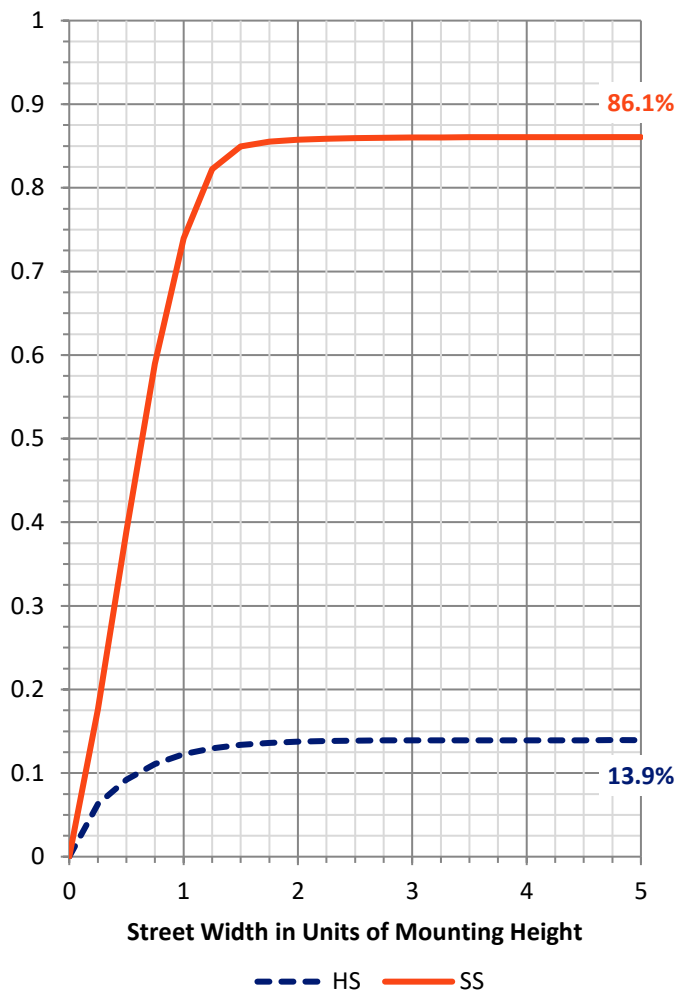
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	701.7	0.0	701.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4308.3	0.0	4308.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	5010.0	0.0	5010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	1.5
10°-20°	293.5	5.9
20°-30°	593.9	11.9
30°-40°	1050.6	21.0
40°-50°	1531.6	30.6
50°-60°	1227.6	24.5
60°-70°	221.2	4.4
70°-80°	17.4	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°	5010.0	100.0
0°-180°	5010.0	100.0

Coefficient of Utilization



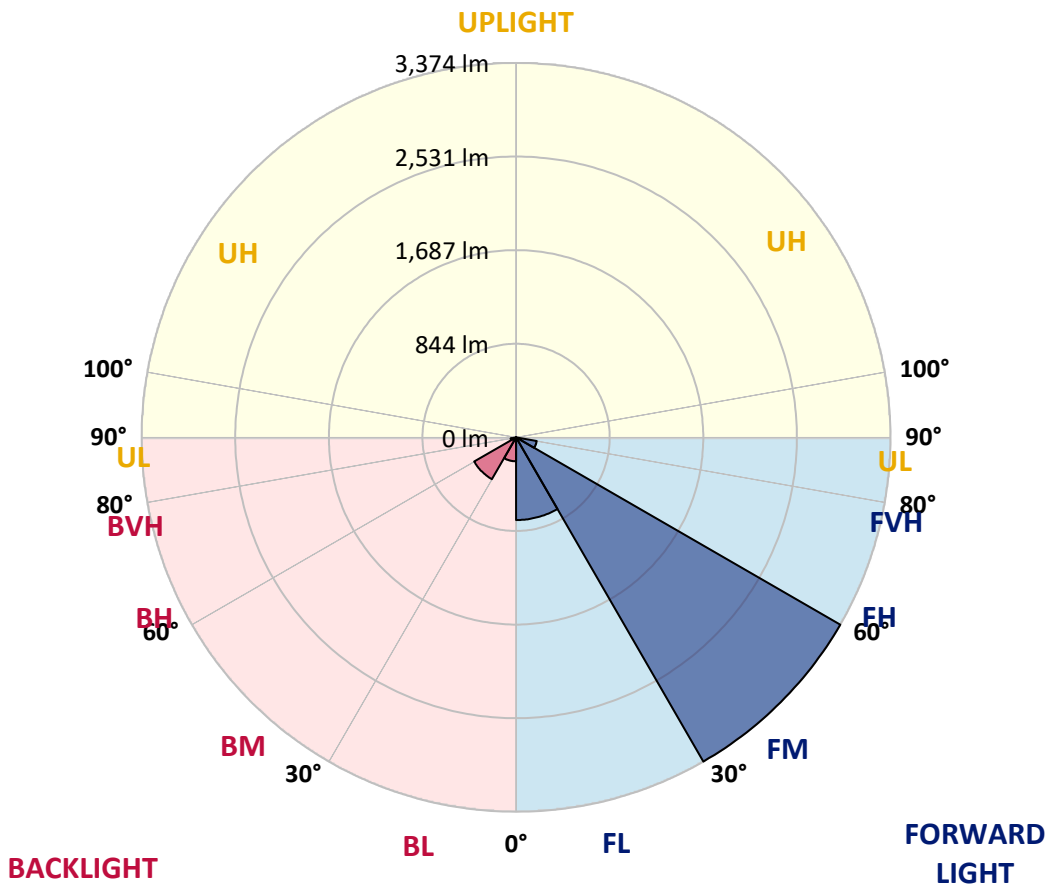
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	745.5	14.9			
FM (30°-60°)	3374.1	67.3			
FH (60°-80°)	188.7	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	216.0	4.3	B1/500		
BM (30°-60°)	435.8	8.7	B1/1000		
BH (60°-80°)	49.9	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°	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4
2.5°	885.6	871.7	863.6	857.2	828.8	783.8	754.3	738.8	713.1	669.7	632.2
5°	1155.6	1145.4	1126.7	1113.8	1077.4	1013.6	947.7	921.5	863.1	765.1	677.2
7.5°	1334.6	1327.1	1320.1	1303.0	1268.7	1210.8	1137.9	1110.6	1020.6	881.3	737.2
10°	1472.2	1466.4	1458.3	1457.8	1431.0	1379.0	1307.8	1279.4	1181.9	1007.8	807.9
12.5°	1593.3	1588.5	1586.9	1601.9	1584.8	1546.2	1469.0	1433.7	1330.3	1136.9	886.1
15°	1676.4	1675.3	1682.3	1711.7	1721.4	1703.7	1638.9	1600.8	1481.9	1266.5	972.4
17.5°	1714.4	1717.6	1731.0	1781.9	1824.8	1839.8	1790.0	1757.8	1632.4	1397.8	1064.5
20°	1779.2	1778.2	1786.2	1834.4	1886.9	1940.5	1925.5	1898.2	1784.6	1536.5	1166.9
22.5°	1961.9	1946.4	1929.2	1936.7	1955.5	2018.2	2046.0	2032.1	1941.6	1679.0	1272.4
25°	2242.7	2226.6	2171.4	2117.8	2082.5	2110.9	2148.9	2155.9	2097.5	1825.3	1382.8
27.5°	2540.5	2526.1	2463.9	2383.6	2282.3	2233.0	2261.4	2275.3	2250.7	1999.4	1500.1
30°	2819.7	2800.4	2732.3	2632.7	2515.4	2439.8	2407.7	2417.3	2431.8	2205.7	1637.8
32.5°	3061.8	3047.4	2965.9	2860.9	2747.9	2669.1	2594.1	2610.2	2645.5	2458.0	1814.1
35°	3267.0	3259.5	3173.3	3068.8	2949.3	2909.1	2844.8	2848.1	2883.4	2762.9	2028.9
37.5°	3445.4	3432.6	3354.3	3257.4	3162.5	3156.1	3138.4	3140.0	3158.3	3118.1	2275.9
40°	3557.9	3546.1	3490.4	3430.4	3362.9	3364.0	3455.6	3462.6	3441.7	3466.9	2536.8
42.5°	3600.3	3591.7	3561.7	3562.2	3555.3	3586.9	3758.8	3771.7	3696.7	3740.6	2759.7
45°	3526.9	3523.1	3525.3	3602.4	3686.0	3783.5	4006.9	4029.4	3923.3	3922.2	2933.8
47.5°	3290.1	3282.6	3345.2	3476.5	3669.9	3859.6	4156.9	4191.7	4081.9	4026.2	3043.1
50°	2826.1	2847.5	2946.6	3143.8	3437.9	3755.1	4155.3	4215.8	4087.8	4017.1	3024.9
52.5°	2047.1	2042.8	2259.8	2530.9	2888.8	3420.8	3934.6	4023.0	3944.7	3927.6	2984.1
55°	1113.8	1152.9	1299.2	1658.2	2105.0	2788.1	3430.4	3623.3	3713.8	3894.9	3057.5
57.5°	409.3	426.5	518.1	772.0	1114.4	1733.7	2620.4	2911.3	3190.9	3803.8	3045.2
60°	165.0	168.2	204.7	283.9	468.2	882.4	1571.9	1830.1	2093.7	2911.8	2337.0
62.5°	120.0	124.3	138.8	166.1	236.8	385.7	677.7	788.1	861.5	1442.2	1151.3
65°	97.0	100.2	112.0	124.3	156.4	207.3	218.6	210.6	209.5	372.9	264.1
67.5°	80.4	83.6	92.1	100.7	112.5	103.4	75.0	78.8	64.3	63.8	52.0
70°	58.9	62.7	71.3	80.4	67.5	27.9	43.4	64.3	48.8	40.7	39.6
72.5°	44.5	47.1	55.2	52.5	19.8	10.7	28.9	46.6	37.5	30.0	29.5
75°	33.2	34.8	27.9	8.6	2.1	2.7	10.7	19.3	20.9	17.1	17.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.6	2.1	2.7	3.2
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°	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4
2.5°	610.8	588.3	556.1	529.3	509.0	489.1	474.1	459.1	458.6	451.1	449.5
5°	636.5	595.8	536.8	494.5	468.8	453.2	442.5	437.2	434.5	431.8	430.7
7.5°	673.4	615.0	533.6	488.6	467.2	457.0	449.5	446.3	444.7	442.5	442.0
10°	719.0	642.9	545.4	499.9	481.1	471.5	463.4	458.6	455.9	452.2	451.1
12.5°	773.6	677.2	564.1	518.6	498.8	485.9	475.2	468.2	464.5	459.7	458.6
15°	832.6	714.2	585.0	535.8	512.2	495.6	482.2	471.5	464.5	458.6	457.0
17.5°	893.6	751.7	603.8	547.5	518.6	498.8	479.5	465.0	456.5	449.0	446.8
20°	962.2	790.2	616.1	549.7	516.5	490.2	467.7	449.5	440.9	430.7	428.6
22.5°	1034.0	826.1	621.5	544.9	504.7	474.1	450.0	431.3	419.0	408.2	405.0
25°	1103.7	858.3	618.8	531.5	487.0	451.6	427.0	407.7	394.3	383.6	380.9
27.5°	1177.6	885.1	609.2	511.6	462.9	427.0	403.4	386.8	374.5	362.7	360.0
30°	1260.6	909.7	593.6	487.5	434.5	401.8	383.6	372.3	359.0	346.6	342.9
32.5°	1360.8	931.7	571.1	458.6	409.3	379.8	369.7	361.1	345.6	332.7	330.0
35°	1475.5	949.9	542.7	428.6	384.7	365.9	363.8	352.5	332.2	317.2	314.0
37.5°	1608.3	967.6	509.0	399.1	366.5	359.5	360.0	340.7	316.1	297.9	295.7
40°	1751.4	985.2	471.5	373.4	349.8	355.7	350.9	323.6	283.4	265.7	263.6
42.5°	1900.3	1004.5	433.4	349.3	335.9	341.3	334.3	289.3	260.4	251.3	250.2
45°	2034.8	1027.6	392.2	325.2	322.0	320.4	308.6	262.0	249.7	243.2	242.7
47.5°	2131.8	1023.8	348.2	302.2	307.0	301.6	265.7	249.1	238.9	230.4	228.2
50°	2114.1	958.5	302.7	276.4	287.7	282.9	238.9	234.1	225.0	215.9	212.7
52.5°	2069.1	869.5	263.1	249.1	266.8	255.6	220.7	215.9	207.9	196.1	192.3
55°	2093.2	785.9	232.0	227.2	245.4	211.6	200.4	192.9	184.3	171.4	169.8
57.5°	2015.5	641.3	186.4	189.7	217.0	180.5	175.7	163.9	149.5	140.9	139.8
60°	1395.1	344.5	116.8	120.5	157.0	151.6	157.5	146.8	129.1	121.1	119.5
62.5°	640.8	138.2	63.8	61.1	82.5	102.9	135.0	133.9	112.0	99.1	98.0
65°	155.4	63.2	45.5	42.9	46.6	61.6	87.9	105.5	90.5	75.5	73.9
67.5°	50.4	51.4	41.8	39.1	41.3	46.1	52.5	58.4	57.9	53.0	52.0
70°	40.2	46.6	38.6	35.4	35.4	37.0	35.4	28.4	24.6	26.8	27.9
72.5°	30.0	35.4	30.5	27.3	26.3	25.7	22.0	16.1	11.3	10.2	9.6
75°	17.7	19.8	18.8	16.1	15.0	13.4	10.7	7.0	3.8	2.7	1.6
77.5°	3.2	3.8	4.3	3.2	2.7	2.1	1.6	0.5	0.0	0.0	0.0
80°	0.0	0.5	0.5	0.5	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)