

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: P632829

Luminaire Tested: GWS-SA2D-740-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-740-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9416.5 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

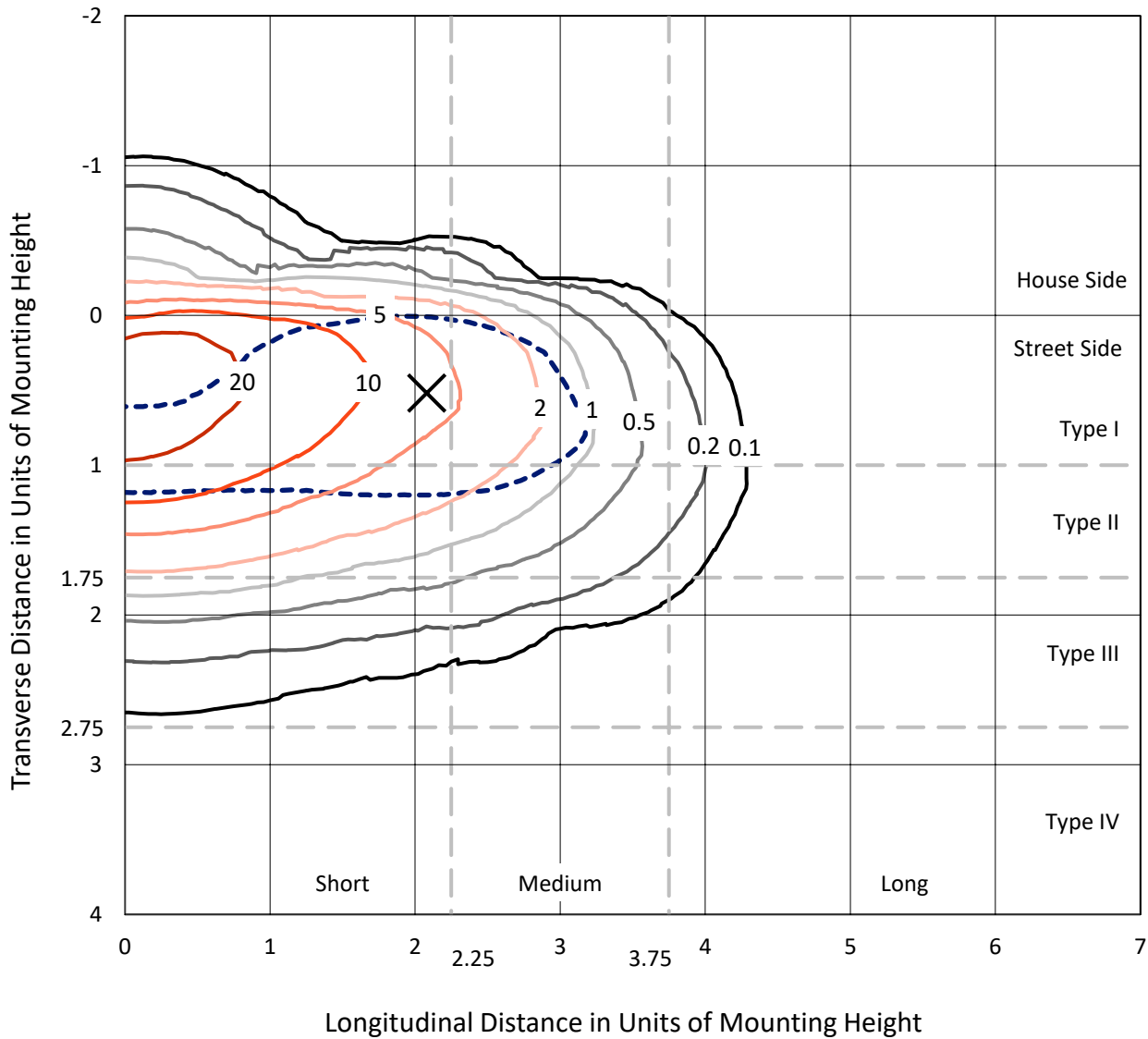
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

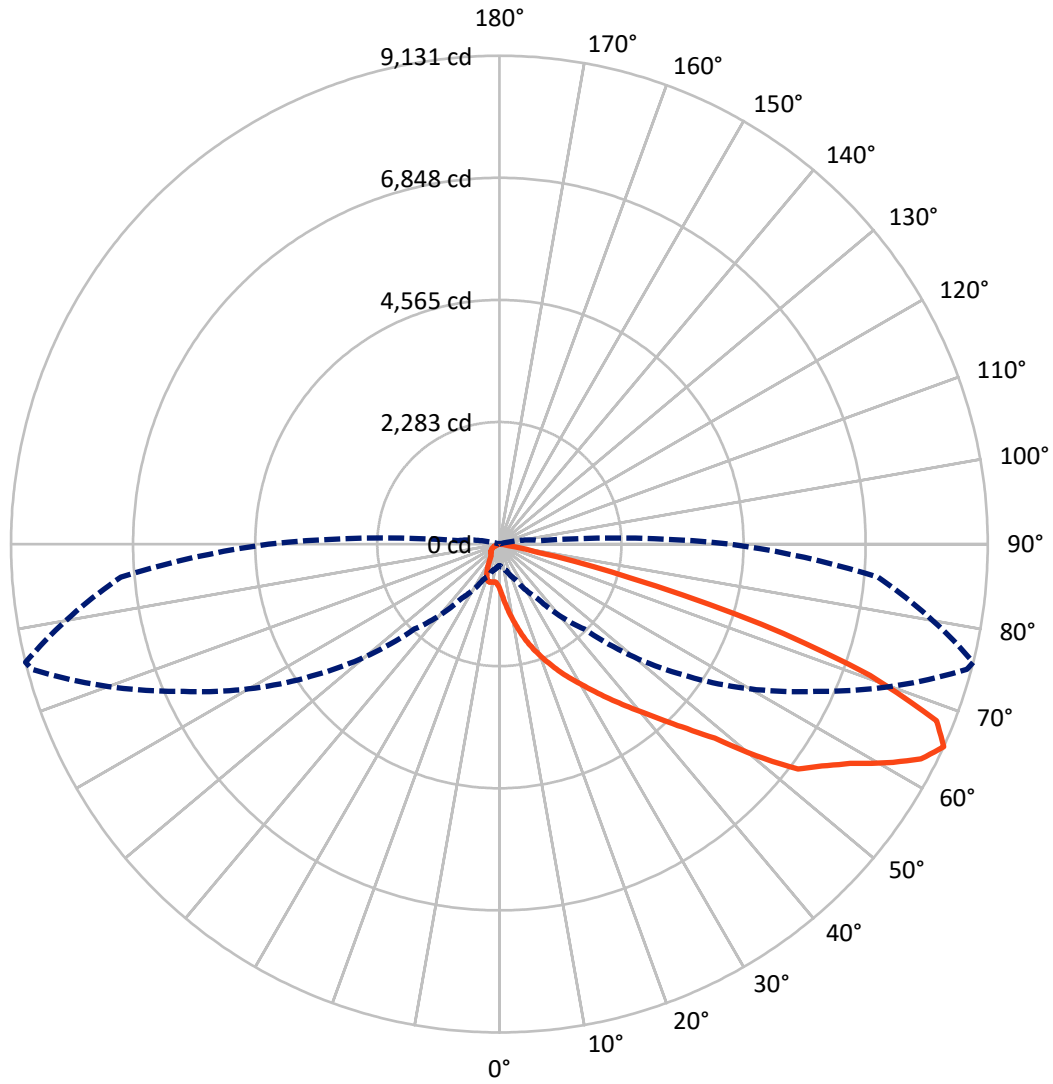
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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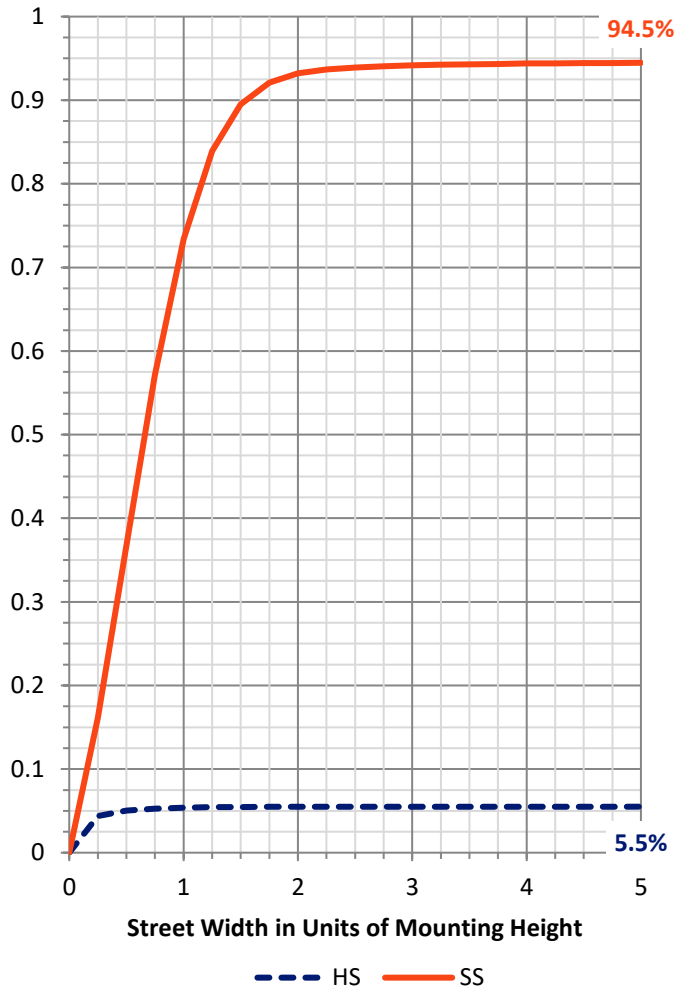
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	520.7	0.0	520.7
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	8895.8	0.0	8895.8
	% Fixture	94.5	0.0	94.5
Total	Lumens	9416.5	0.0	9416.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	1.1
10°-20°	384.8	4.1
20°-30°	785.2	8.3
30°-40°	1396.4	14.8
40°-50°	2064.3	21.9
50°-60°	2363.4	25.1
60°-70°	1803.2	19.1
70°-80°	505.1	5.4
80°-90°	12.7	0.1
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°	9416.5	100.0
0°-180°	9416.5	100.0

Coefficient of Utilization



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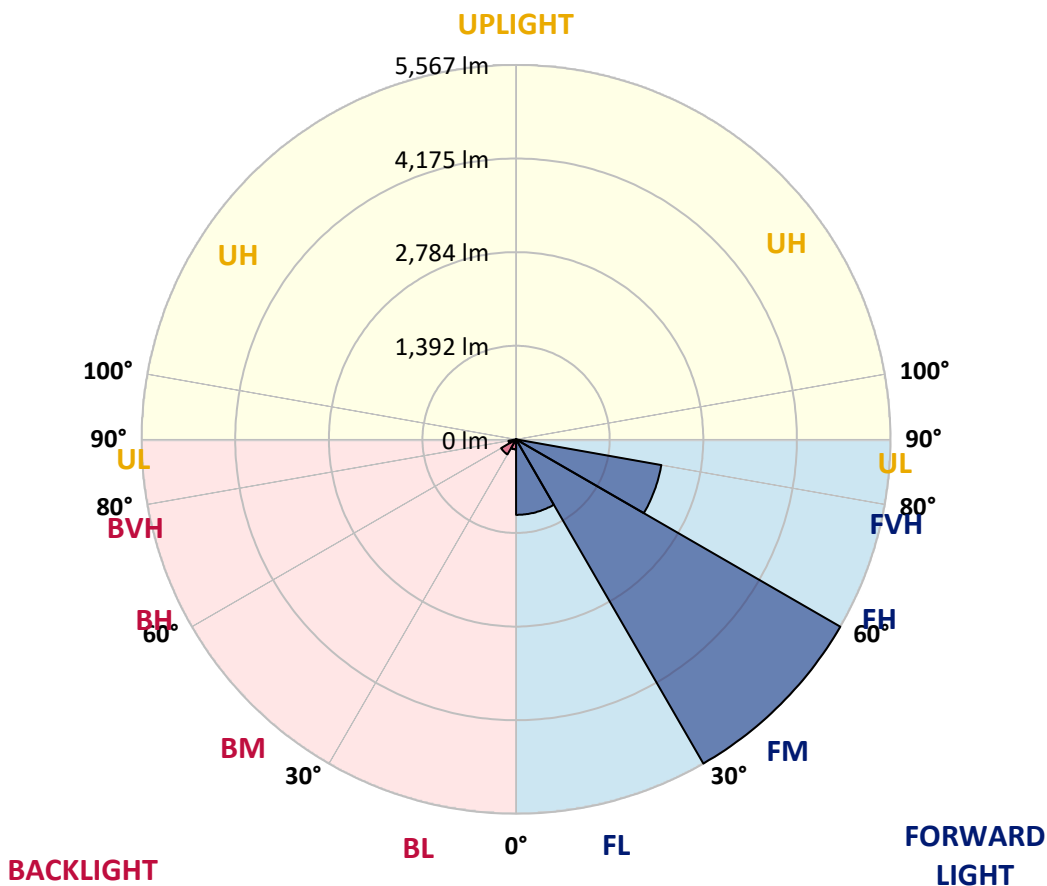
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1122.8	11.9			
FM (30°-60°)	5567.2	59.1			
FH (60°-80°)	2193.8	23.3			G2/5000
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	148.6	1.6	B1/500		
BM (30°-60°)	256.9	2.7	B1/1000		
BH (60°-80°)	114.5	1.2	B1/500		G1/500
BVH (80°-90°)	0.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7
2.5°	1284.9	1304.1	1289.1	1263.9	1215.4	1168.5	1108.3	1025.4	959.3	950.9	888.9
5°	1735.2	1733.5	1700.9	1668.2	1617.2	1536.8	1415.5	1261.4	1113.3	1100.7	961.8
7.5°	2003.1	2005.6	1987.2	1962.0	1911.8	1829.0	1702.6	1516.7	1299.9	1274.8	1061.4
10°	2228.2	2227.4	2214.0	2202.3	2157.1	2101.8	1966.2	1762.0	1500.8	1461.5	1172.7
12.5°	2397.3	2403.2	2409.9	2421.6	2402.3	2347.9	2219.9	1997.2	1704.2	1660.7	1299.9
15°	2531.2	2532.9	2558.0	2603.2	2619.1	2590.7	2474.3	2224.9	1905.1	1867.5	1446.4
17.5°	2571.4	2574.8	2617.5	2700.3	2784.0	2799.9	2712.0	2454.2	2102.7	2062.5	1588.7
20°	2656.0	2663.5	2695.3	2768.1	2873.6	2959.0	2924.7	2686.1	2300.2	2247.5	1734.4
22.5°	2922.1	2926.3	2915.5	2924.7	2979.1	3077.8	3098.8	2910.4	2502.8	2446.7	1891.7
25°	3380.0	3381.7	3305.5	3233.5	3192.5	3210.9	3257.0	3117.2	2703.7	2648.4	2038.2
27.5°	3855.5	3861.3	3770.1	3647.9	3501.4	3417.7	3404.3	3306.4	2906.2	2845.1	2183.0
30°	4303.3	4303.3	4207.0	4058.0	3862.2	3698.9	3602.7	3497.2	3123.0	3056.1	2331.2
32.5°	4705.9	4702.6	4579.5	4418.0	4224.6	4045.5	3842.9	3696.4	3364.1	3289.6	2501.9
35°	5038.2	5029.8	4890.1	4735.2	4528.5	4395.4	4169.4	3910.7	3625.3	3550.8	2677.7
37.5°	5289.3	5280.1	5152.1	4988.0	4796.3	4710.1	4520.9	4167.7	3900.7	3832.9	2872.8
40°	5425.8	5407.4	5318.6	5196.4	5035.7	4960.4	4881.7	4486.6	4224.6	4140.1	3103.0
42.5°	5465.9	5444.2	5385.6	5328.7	5231.6	5172.1	5256.7	4846.5	4580.3	4507.5	3365.8
45°	5347.1	5334.5	5329.5	5370.5	5388.1	5404.8	5613.3	5245.0	4972.9	4917.7	3696.4
47.5°	5060.8	5057.5	5101.8	5272.6	5458.4	5635.0	6000.8	5736.3	5481.9	5422.4	4158.5
50°	4531.8	4566.1	4690.0	4989.7	5361.3	5765.6	6363.3	6417.7	6305.5	6218.5	4761.2
52.5°	3704.8	3770.9	4048.8	4504.2	5038.2	5728.8	6530.7	6963.4	7078.1	6987.7	5193.1
55°	2907.1	2969.0	3216.8	3794.4	4506.7	5448.4	6538.2	7151.8	7402.1	7318.3	5485.2
57.5°	2165.5	2222.4	2447.5	3000.0	3783.5	4896.8	6359.1	7256.4	7786.3	7732.7	5946.4
60°	1415.5	1471.5	1674.9	2157.9	2934.7	4093.2	5918.0	7234.6	8309.4	8304.4	6513.1
62.5°	785.2	829.5	976.8	1353.5	2048.3	3169.9	5224.9	7016.2	8815.8	8847.6	6980.2
65°	401.8	430.2	519.8	744.1	1239.7	2247.5	4313.3	6515.6	9050.2	9130.6	7103.2
67.5°	262.8	272.0	293.8	386.7	663.8	1413.8	3246.1	5712.9	8720.4	8814.2	6690.6
70°	213.4	221.0	233.5	257.8	342.4	750.8	2132.0	4562.8	7286.5	7350.2	5327.8
72.5°	156.5	166.6	190.8	206.8	246.9	411.8	1109.1	2995.0	5003.9	5116.1	3348.2
75°	115.5	121.4	141.5	163.2	201.7	260.3	424.4	1574.5	2584.0	2518.7	1406.2
77.5°	69.5	73.7	90.4	104.6	144.0	162.4	148.2	581.8	786.0	739.1	339.8
80°	34.3	38.5	59.4	78.7	92.1	65.3	61.9	162.4	174.9	174.9	85.4
82.5°	11.7	15.1	31.8	51.9	45.2	25.1	29.3	41.9	46.9	49.4	25.1
85°	0.0	0.0	7.5	15.1	6.7	3.3	7.5	9.2	11.7	12.6	8.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.5	3.3	3.3
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°	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7
2.5°	855.5	816.1	756.7	703.1	662.1	623.6	594.3	570.9	566.7	553.3	555.0
5°	894.0	822.8	713.2	628.6	569.2	529.0	495.5	470.4	459.5	448.7	440.3
7.5°	953.4	850.4	696.4	593.5	524.0	462.1	410.2	368.3	348.2	335.7	327.3
10°	1026.2	888.9	697.3	572.5	469.6	375.0	303.8	257.8	236.0	229.4	228.5
12.5°	1113.3	937.5	704.0	538.2	390.9	278.7	225.2	204.2	197.5	191.7	191.7
15°	1205.4	991.9	704.0	475.4	298.0	217.6	195.0	181.6	173.3	169.9	168.2
17.5°	1302.5	1043.0	687.2	389.2	228.5	191.7	173.3	160.7	154.0	149.0	147.3
20°	1406.2	1091.5	645.4	298.0	195.9	171.6	154.0	141.5	134.8	129.7	129.7
22.5°	1511.7	1136.7	577.6	229.4	173.3	152.3	135.6	123.9	117.2	112.2	112.2
25°	1609.7	1166.9	490.5	189.2	156.5	135.6	120.5	108.8	101.3	97.9	96.3
27.5°	1700.9	1186.1	394.3	166.6	140.6	121.4	105.5	94.6	88.7	86.2	84.5
30°	1795.5	1191.1	301.3	151.5	127.2	107.1	92.1	83.7	78.7	75.3	75.3
32.5°	1887.6	1185.3	230.2	139.0	115.5	94.6	82.0	74.5	70.3	67.8	67.0
35°	1981.3	1158.5	186.7	128.1	103.8	82.9	72.8	67.0	64.5	61.1	61.1
37.5°	2083.4	1122.5	162.4	117.2	92.1	74.5	65.3	61.1	57.8	55.2	54.4
40°	2210.7	1080.6	149.0	108.0	81.2	67.0	58.6	54.4	51.9	49.4	48.5
42.5°	2361.3	1039.6	142.3	97.9	72.8	59.4	52.7	47.7	45.2	41.9	41.0
45°	2574.8	1030.4	134.8	87.1	65.3	53.6	46.0	41.0	37.7	35.2	34.3
47.5°	2918.0	1056.4	122.2	75.3	57.8	46.9	39.3	35.2	31.0	28.5	26.8
50°	3258.6	1049.7	109.7	65.3	51.1	40.2	33.5	29.3	25.1	22.6	21.8
52.5°	3444.5	1017.9	97.9	57.8	44.4	34.3	28.5	23.4	20.9	18.4	17.6
55°	3612.7	1005.3	86.2	50.2	37.7	30.1	23.4	19.3	17.6	15.1	14.2
57.5°	3942.5	1034.6	76.2	43.5	32.6	25.9	20.1	15.9	14.2	11.7	10.9
60°	4287.4	1037.9	65.3	37.7	28.5	21.8	15.9	12.6	10.9	8.4	7.5
62.5°	4467.3	953.4	53.6	31.8	23.4	18.4	13.4	10.0	8.4	5.0	5.0
65°	4316.7	770.9	45.2	25.9	18.4	14.2	10.0	7.5	5.0	2.5	0.8
67.5°	3820.3	548.3	37.7	20.9	13.4	10.0	7.5	5.0	0.8	0.0	0.0
70°	2797.4	313.1	29.3	15.1	10.0	6.7	5.0	2.5	0.0	0.0	0.0
72.5°	1719.3	167.4	21.8	10.0	7.5	5.0	4.2	1.7	0.0	0.0	0.0
75°	652.1	80.4	13.4	6.7	5.9	4.2	2.5	0.8	0.0	0.0	0.0
77.5°	176.6	39.3	7.5	5.0	4.2	2.5	1.7	0.0	0.0	0.0	0.0
80°	46.0	18.4	5.0	3.3	2.5	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	15.9	8.4	2.5	2.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0
85°	6.7	3.3	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	0.8	0.8	0.8	0.8	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)