

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: P632939

Luminaire Tested: GWS-SA2D-760-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632939
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9500.3 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

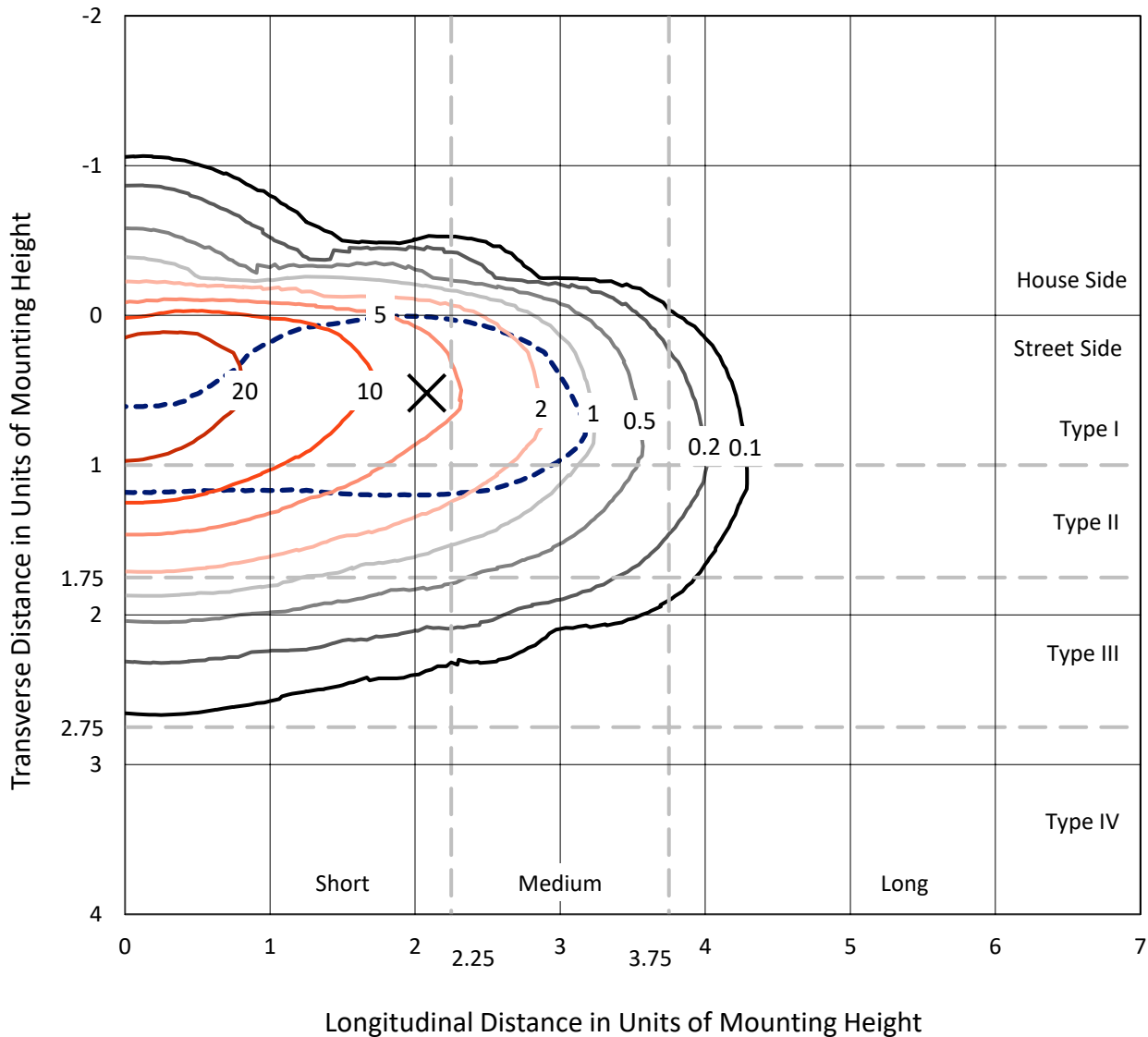
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

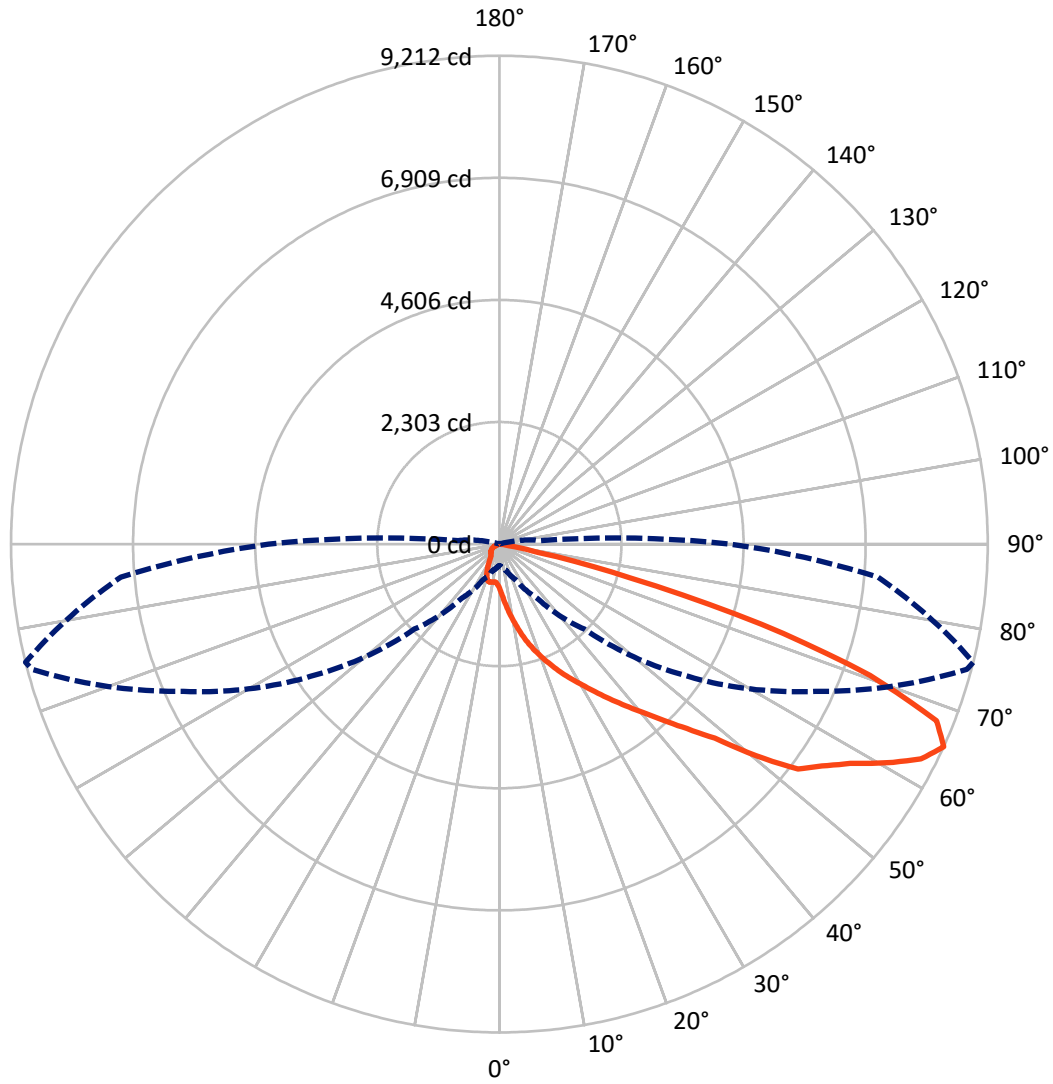
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.5 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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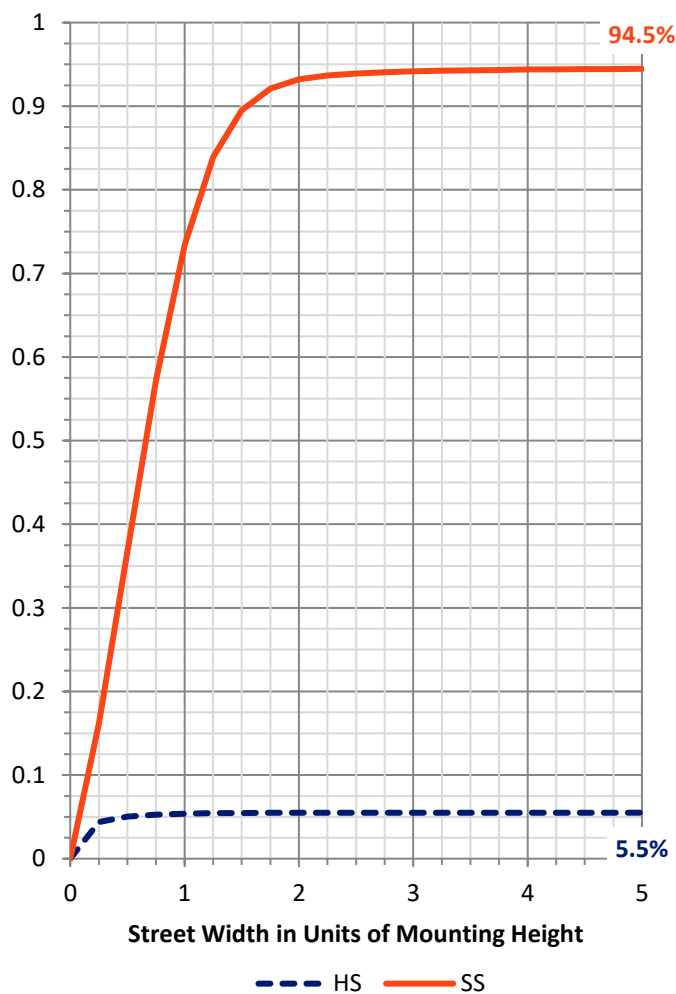
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	525.3	0.0	525.3
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	8975.0	0.0	8975.0
	% Fixture	94.5	0.0	94.5
Total	Lumens	9500.3	0.0	9500.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	1.1
10°-20°	388.3	4.1
20°-30°	792.1	8.3
30°-40°	1408.9	14.8
40°-50°	2082.6	21.9
50°-60°	2384.4	25.1
60°-70°	1819.2	19.1
70°-80°	509.6	5.4
80°-90°	12.8	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°	9500.3	100.0
0°-180°	9500.3	100.0

Coefficient of Utilization



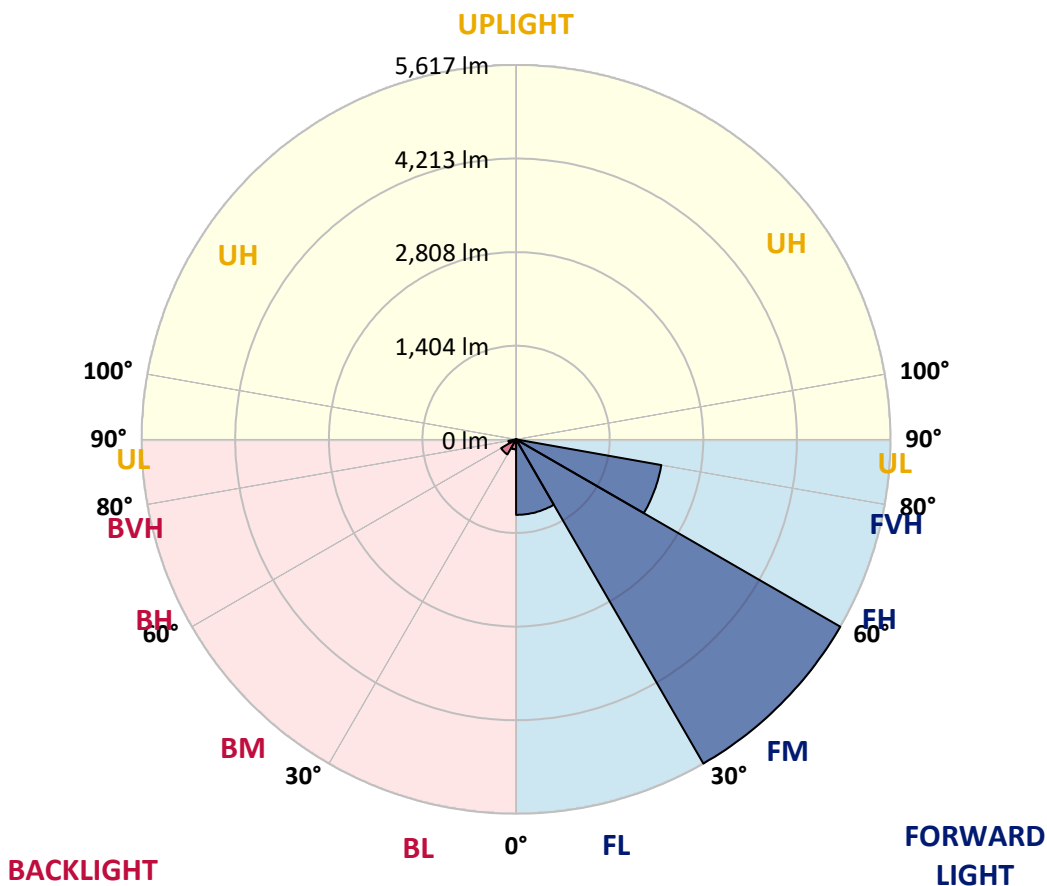
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1132.8	11.9			
FM (30°-60°)	5616.7	59.1			
FH (60°-80°)	2213.3	23.3			G2/5000
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	149.9	1.6	B1/500		
BM (30°-60°)	259.2	2.7	B1/1000		
BH (60°-80°)	115.5	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°	841.1	841.1	841.1	841.1	841.1	841.1	841.1	841.1	841.1	841.1	841.1
2.5°	1296.3	1315.7	1300.5	1275.2	1226.2	1178.9	1118.1	1034.5	967.8	959.4	896.9
5°	1750.7	1749.0	1716.0	1683.1	1631.6	1550.5	1428.1	1272.7	1123.2	1110.5	970.3
7.5°	2020.9	2023.4	2004.8	1979.5	1928.8	1845.2	1717.7	1530.2	1311.5	1286.2	1070.8
10°	2248.1	2247.2	2233.7	2221.9	2176.3	2120.5	1983.7	1777.7	1514.2	1474.5	1183.1
12.5°	2418.7	2424.6	2431.3	2443.1	2423.7	2368.8	2239.6	2015.0	1719.4	1675.5	1311.5
15°	2553.8	2555.5	2580.8	2626.4	2642.4	2613.7	2496.3	2244.7	1922.1	1884.1	1459.3
17.5°	2594.3	2597.7	2640.8	2724.4	2808.8	2824.9	2736.2	2476.1	2121.4	2080.9	1602.9
20°	2679.6	2687.2	2719.3	2792.8	2899.2	2985.3	2950.7	2710.0	2320.7	2267.5	1749.8
22.5°	2948.2	2952.4	2941.4	2950.7	3005.6	3105.2	3126.3	2936.3	2525.1	2468.5	1908.6
25°	3410.1	3411.8	3334.9	3262.3	3220.9	3239.5	3286.0	3144.9	2727.7	2672.0	2056.4
27.5°	3889.8	3895.7	3803.6	3680.3	3532.5	3448.1	3434.6	3335.8	2932.1	2870.5	2202.5
30°	4341.6	4341.6	4244.5	4094.1	3896.5	3731.9	3634.7	3528.3	3150.8	3083.3	2351.9
32.5°	4747.8	4744.4	4620.3	4457.3	4262.2	4081.5	3877.1	3729.3	3394.0	3318.9	2524.2
35°	5083.1	5074.6	4933.6	4777.3	4568.8	4434.5	4206.5	3945.5	3657.5	3582.4	2701.6
37.5°	5336.4	5327.1	5197.9	5032.4	4839.0	4752.0	4561.2	4204.8	3935.4	3867.0	2898.3
40°	5474.1	5455.5	5366.0	5242.7	5080.5	5004.5	4925.1	4526.5	4262.2	4176.9	3130.6
42.5°	5514.6	5492.6	5433.5	5376.1	5278.1	5218.2	5303.5	4889.7	4621.1	4547.6	3395.7
45°	5394.7	5382.0	5376.9	5418.3	5436.1	5452.9	5663.2	5291.6	5017.2	4961.4	3729.3
47.5°	5105.9	5102.5	5147.2	5319.5	5507.0	5685.2	6054.2	5787.4	5530.6	5470.7	4195.5
50°	4572.1	4606.8	4731.7	5034.1	5409.0	5816.9	6419.9	6474.8	6361.6	6273.8	4803.5
52.5°	3737.8	3804.5	4084.9	4544.3	5083.1	5779.8	6588.8	7025.4	7141.1	7049.9	5239.3
55°	2933.0	2995.4	3245.4	3828.1	4546.8	5496.9	6596.4	7215.4	7467.9	7383.5	5534.0
57.5°	2184.7	2242.2	2469.3	3026.7	3817.1	4940.3	6415.7	7321.0	7855.5	7801.5	5999.3
60°	1428.1	1484.6	1689.8	2177.1	2960.8	4129.6	5970.6	7299.0	8383.4	8378.3	6571.1
62.5°	792.1	836.9	985.5	1365.6	2066.5	3198.1	5271.4	7078.6	8894.3	8926.4	7042.3
65°	405.4	434.1	524.4	750.8	1250.7	2267.5	4351.7	6573.6	9130.7	9211.8	7166.4
67.5°	265.2	274.5	296.4	390.2	669.7	1426.4	3275.0	5763.7	8798.0	8892.6	6750.1
70°	215.3	222.9	235.6	260.1	345.4	757.5	2150.9	4603.4	7351.4	7415.6	5375.2
72.5°	157.9	168.1	192.5	208.6	249.1	415.5	1119.0	3021.6	5048.4	5161.6	3378.0
75°	116.5	122.5	142.7	164.7	203.5	262.6	428.2	1588.5	2607.0	2541.1	1418.8
77.5°	70.1	74.3	91.2	105.6	145.3	163.8	149.5	586.9	793.0	745.7	342.9
80°	34.6	38.8	60.0	79.4	92.9	65.9	62.5	163.8	176.5	176.5	86.1
82.5°	11.8	15.2	32.1	52.4	45.6	25.3	29.6	42.2	47.3	49.8	25.3
85°	0.0	0.0	7.6	15.2	6.8	3.4	7.6	9.3	11.8	12.7	8.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.5	3.4	3.4
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°	841.1	841.1	841.1	841.1	841.1	841.1	841.1	841.1	841.1	841.1	841.1
2.5°	863.1	823.4	763.4	709.4	668.0	629.2	599.6	575.9	571.7	558.2	559.9
5°	901.9	830.1	719.5	634.2	574.3	533.7	499.9	474.6	463.6	452.7	444.2
7.5°	961.9	858.0	702.6	598.8	528.7	466.2	413.8	371.6	351.3	338.6	330.2
10°	1035.4	896.9	703.5	577.6	473.8	378.3	306.6	260.1	238.1	231.4	230.5
12.5°	1123.2	945.8	710.2	543.0	394.4	281.2	227.2	206.1	199.3	193.4	193.4
15°	1216.1	1000.7	710.2	479.7	300.6	219.6	196.8	183.3	174.8	171.4	169.7
17.5°	1314.0	1052.2	693.3	392.7	230.5	193.4	174.8	162.1	155.4	150.3	148.6
20°	1418.8	1101.2	651.1	300.6	197.6	173.1	155.4	142.7	136.0	130.9	130.9
22.5°	1525.2	1146.8	582.7	231.4	174.8	153.7	136.8	125.0	118.2	113.2	113.2
25°	1624.0	1177.2	494.9	190.9	157.9	136.8	121.6	109.8	102.2	98.8	97.1
27.5°	1716.0	1196.7	397.8	168.1	141.9	122.5	106.4	95.4	89.5	87.0	85.3
30°	1811.5	1201.7	304.0	152.9	128.4	108.1	92.9	84.5	79.4	76.0	76.0
32.5°	1904.3	1195.8	232.2	140.2	116.5	95.4	82.8	75.2	70.9	68.4	67.6
35°	1998.9	1168.8	188.3	129.2	104.7	83.6	73.5	67.6	65.0	61.6	61.6
37.5°	2102.0	1132.5	163.8	118.2	92.9	75.2	65.9	61.6	58.3	55.7	54.9
40°	2230.3	1090.3	150.3	108.9	81.9	67.6	59.1	54.9	52.4	49.8	49.0
42.5°	2382.3	1048.9	143.6	98.8	73.5	60.0	53.2	48.1	45.6	42.2	41.4
45°	2597.7	1039.6	136.0	87.8	65.9	54.0	46.4	41.4	38.0	35.5	34.6
47.5°	2943.9	1065.8	123.3	76.0	58.3	47.3	39.7	35.5	31.2	28.7	27.0
50°	3287.6	1059.0	110.6	65.9	51.5	40.5	33.8	29.6	25.3	22.8	22.0
52.5°	3475.1	1026.9	98.8	58.3	44.8	34.6	28.7	23.6	21.1	18.6	17.7
55°	3644.9	1014.2	87.0	50.7	38.0	30.4	23.6	19.4	17.7	15.2	14.4
57.5°	3977.6	1043.8	76.8	43.9	32.9	26.2	20.3	16.0	14.4	11.8	11.0
60°	4325.5	1047.2	65.9	38.0	28.7	22.0	16.0	12.7	11.0	8.4	7.6
62.5°	4507.1	961.9	54.0	32.1	23.6	18.6	13.5	10.1	8.4	5.1	5.1
65°	4355.1	777.8	45.6	26.2	18.6	14.4	10.1	7.6	5.1	2.5	0.8
67.5°	3854.3	553.1	38.0	21.1	13.5	10.1	7.6	5.1	0.8	0.0	0.0
70°	2822.3	315.8	29.6	15.2	10.1	6.8	5.1	2.5	0.0	0.0	0.0
72.5°	1734.6	168.9	22.0	10.1	7.6	5.1	4.2	1.7	0.0	0.0	0.0
75°	657.9	81.1	13.5	6.8	5.9	4.2	2.5	0.8	0.0	0.0	0.0
77.5°	178.2	39.7	7.6	5.1	4.2	2.5	1.7	0.0	0.0	0.0	0.0
80°	46.4	18.6	5.1	3.4	2.5	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	16.0	8.4	2.5	2.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0
85°	6.8	3.4	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)