

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: P634039

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634039
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-SA2F-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10393.1 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

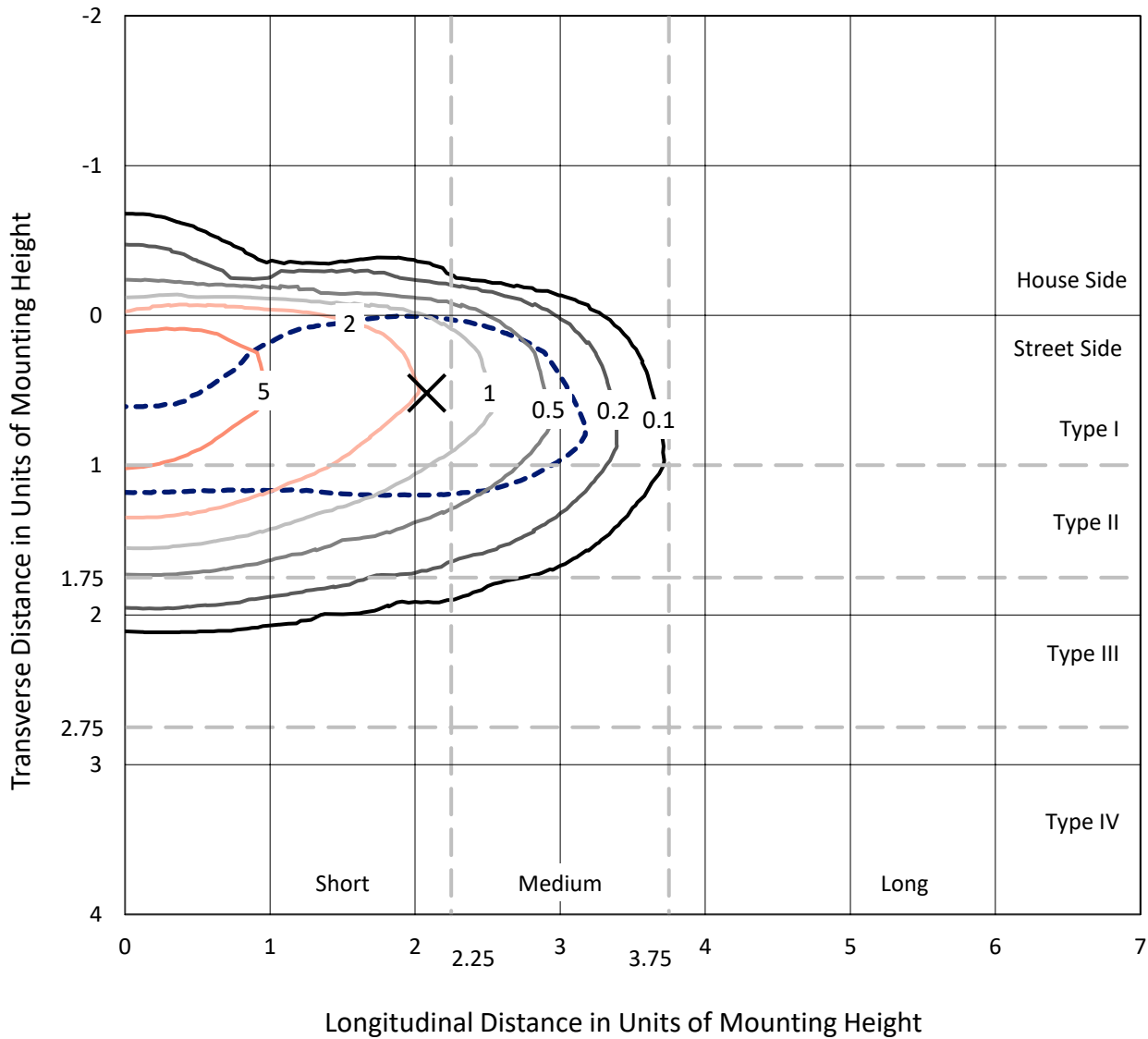
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

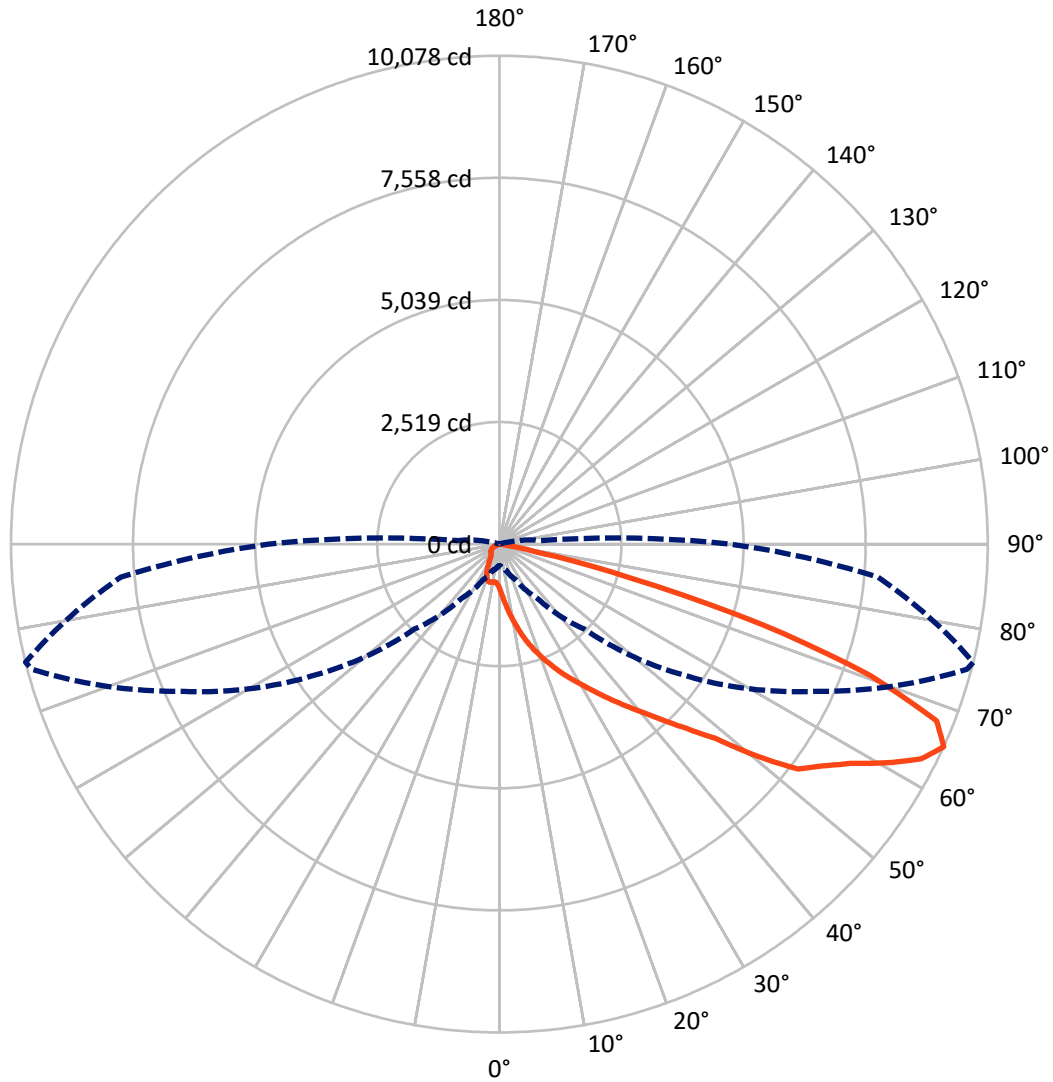
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 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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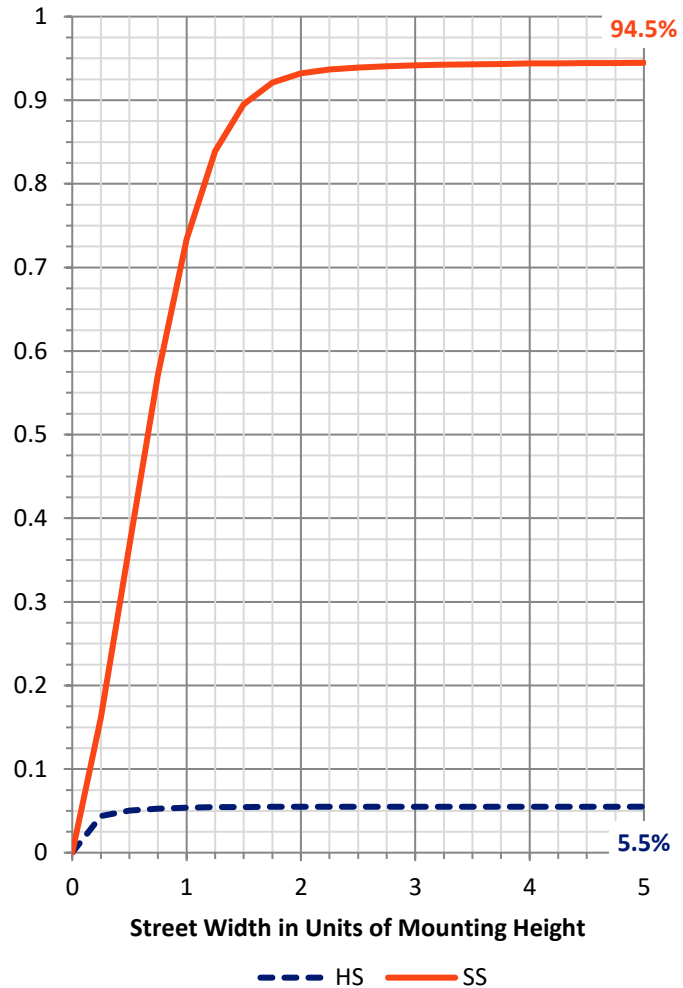
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	574.7	0.0	574.7
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	9818.4	0.0	9818.4
	% Fixture	94.5	0.0	94.5
Total	Lumens	10393.1	0.0	10393.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	1.1
10°-20°	424.8	4.1
20°-30°	866.6	8.3
30°-40°	1541.3	14.8
40°-50°	2278.3	21.9
50°-60°	2608.5	25.1
60°-70°	1990.2	19.1
70°-80°	557.5	5.4
80°-90°	14.0	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°	10393.1	100.0
0°-180°	10393.1	100.0

Coefficient of Utilization



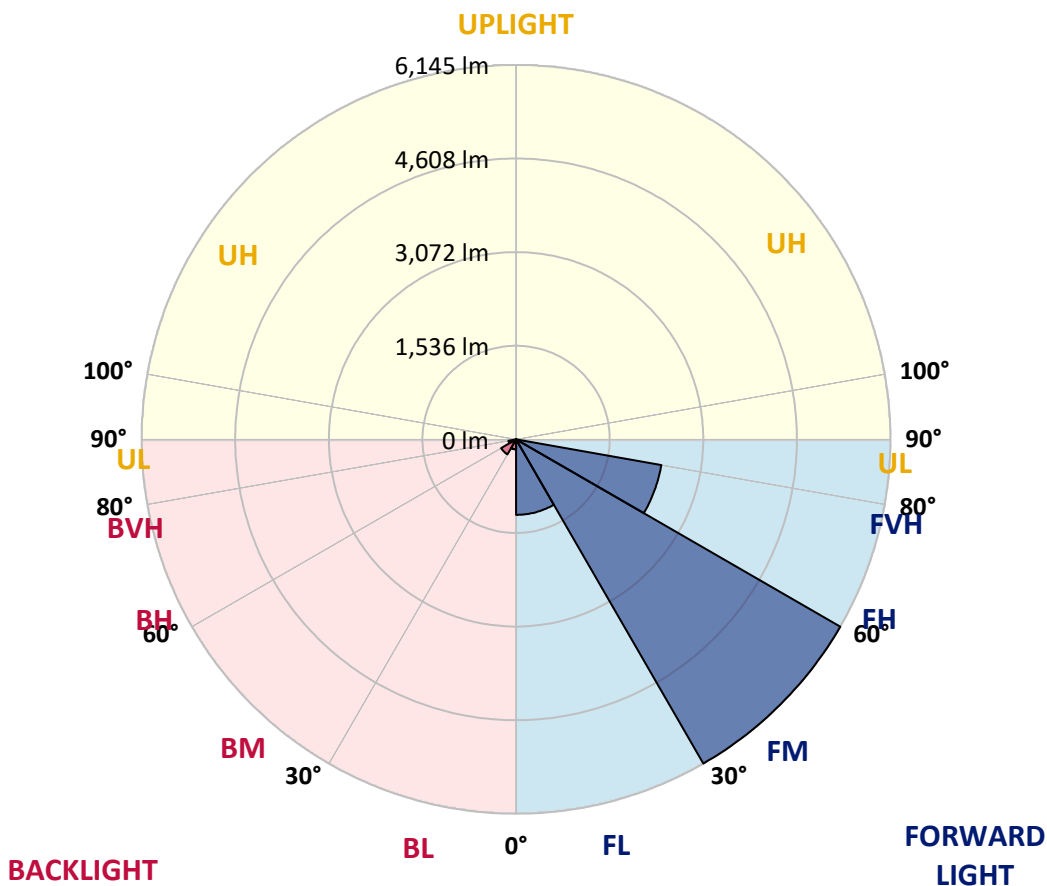
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1239.3	11.9			
FM (30°-60°)	6144.6	59.1			
FH (60°-80°)	2421.3	23.3			G2/5000
FVH (80°-90°)	13.2	0.1			G1/100
BL (0°-30°)	164.0	1.6	B1/500		
BM (30°-60°)	283.5	2.7	B1/1000		
BH (60°-80°)	126.3	1.2	B1/500		G1/500
BVH (80°-90°)	0.8	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°	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2
2.5°	1418.1	1439.4	1422.8	1395.0	1341.5	1289.7	1223.2	1131.7	1058.7	1049.5	981.1
5°	1915.2	1913.3	1877.3	1841.3	1784.9	1696.2	1562.3	1392.3	1228.7	1214.9	1061.5
7.5°	2210.8	2213.6	2193.3	2165.5	2110.1	2018.6	1879.1	1674.0	1434.8	1407.0	1171.5
10°	2459.3	2458.4	2443.6	2430.7	2380.8	2319.8	2170.2	1944.7	1656.5	1613.1	1294.3
12.5°	2645.9	2652.4	2659.8	2672.7	2651.5	2591.4	2450.1	2204.3	1881.0	1832.9	1434.8
15°	2793.8	2795.6	2823.3	2873.2	2890.8	2859.4	2730.9	2455.6	2102.7	2061.1	1596.4
17.5°	2838.1	2841.8	2888.9	2980.4	3072.8	3090.3	2993.3	2708.8	2320.7	2276.4	1753.5
20°	2931.4	2939.7	2974.8	3055.2	3171.6	3265.9	3228.0	2964.7	2538.8	2480.6	1914.2
22.5°	3225.2	3229.8	3217.8	3228.0	3288.0	3397.0	3420.1	3212.3	2762.4	2700.5	2087.9
25°	3730.6	3732.4	3648.3	3568.9	3523.6	3543.9	3594.8	3440.5	2984.1	2923.1	2249.6
27.5°	4255.3	4261.8	4161.1	4026.2	3864.5	3772.1	3757.4	3649.3	3207.7	3140.2	2409.4
30°	4749.6	4749.6	4643.3	4478.9	4262.7	4082.6	3976.3	3859.9	3446.9	3373.0	2573.0
32.5°	5194.0	5190.3	5054.5	4876.2	4662.7	4465.0	4241.5	4079.8	3713.0	3630.8	2761.4
35°	5560.7	5551.5	5397.2	5226.3	4998.1	4851.2	4601.8	4316.3	4001.3	3919.0	2955.4
37.5°	5837.9	5827.7	5686.4	5505.3	5293.7	5198.6	4989.8	4599.9	4305.2	4230.4	3170.7
40°	5988.5	5968.2	5870.2	5735.3	5558.0	5474.8	5388.0	4951.9	4662.7	4569.4	3424.8
42.5°	6032.8	6008.8	5944.1	5881.3	5774.1	5708.6	5801.9	5349.2	5055.4	4975.0	3714.9
45°	5901.6	5887.8	5882.2	5927.5	5946.9	5965.4	6195.4	5788.9	5488.7	5427.7	4079.8
47.5°	5585.7	5582.0	5631.0	5819.4	6024.5	6219.5	6623.2	6331.2	6050.4	5984.8	4589.8
50°	5001.8	5039.7	5176.4	5507.2	5917.3	6363.6	7023.2	7083.3	6959.5	6863.4	5254.9
52.5°	4089.0	4162.0	4468.7	4971.3	5560.7	6322.9	7208.0	7685.6	7812.2	7712.4	5731.7
55°	3208.6	3276.9	3550.4	4187.9	4974.1	6013.4	7216.3	7893.5	8169.7	8077.3	6054.1
57.5°	2390.0	2452.9	2701.4	3311.1	4175.9	5404.6	7018.6	8009.0	8593.8	8534.7	6563.1
60°	1562.3	1624.2	1848.7	2381.7	3239.1	4517.7	6531.7	7985.0	9171.2	9165.7	7188.6
62.5°	866.6	915.5	1078.1	1493.9	2260.7	3498.7	5766.8	7743.8	9730.1	9765.2	7704.1
65°	443.5	474.9	573.7	821.3	1368.2	2480.6	4760.7	7191.4	9988.8	10077.5	7839.9
67.5°	290.1	300.3	324.3	426.8	732.6	1560.4	3582.7	6305.4	9624.8	9728.3	7384.4
70°	235.6	243.9	257.8	284.6	377.9	828.7	2353.1	5036.0	8042.2	8112.4	5880.4
72.5°	172.8	183.8	210.6	228.2	272.5	454.5	1224.1	3305.6	5522.9	5646.7	3695.5
75°	127.5	134.0	156.1	180.2	222.7	287.3	468.4	1737.8	2852.0	2779.9	1552.1
77.5°	76.7	81.3	99.8	115.5	158.9	179.2	163.5	642.1	867.5	815.8	375.1
80°	37.9	42.5	65.6	86.8	101.6	72.1	68.4	179.2	193.1	193.1	94.2
82.5°	12.9	16.6	35.1	57.3	49.9	27.7	32.3	46.2	51.7	54.5	27.7
85°	0.0	0.0	8.3	16.6	7.4	3.7	8.3	10.2	12.9	13.9	9.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.8	3.7	3.7
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°	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2
2.5°	944.2	900.8	835.2	776.0	730.8	688.3	655.9	630.1	625.5	610.7	612.5
5°	986.7	908.2	787.1	693.8	628.2	583.9	546.9	519.2	507.2	495.2	486.0
7.5°	1052.3	938.6	768.7	655.0	578.3	510.0	452.7	406.5	384.3	370.5	361.2
10°	1132.7	981.1	769.6	631.9	518.3	413.9	335.4	284.6	260.5	253.1	252.2
12.5°	1228.7	1034.7	777.0	594.0	431.4	307.6	248.5	225.4	218.0	211.6	211.6
15°	1330.4	1094.8	777.0	524.8	328.9	240.2	215.3	200.5	191.2	187.5	185.7
17.5°	1437.5	1151.1	758.5	429.6	252.2	211.6	191.2	177.4	170.0	164.4	162.6
20°	1552.1	1204.7	712.3	328.9	216.2	189.4	170.0	156.1	148.7	143.2	143.2
22.5°	1668.5	1254.6	637.5	253.1	191.2	168.1	149.7	136.7	129.3	123.8	123.8
25°	1776.6	1287.9	541.4	208.8	172.8	149.7	133.0	120.1	111.8	108.1	106.2
27.5°	1877.3	1309.1	435.1	183.8	155.2	134.0	116.4	104.4	97.9	95.2	93.3
30°	1981.7	1314.7	332.6	167.2	140.4	118.3	101.6	92.4	86.8	83.1	83.1
32.5°	2083.3	1308.2	254.1	153.4	127.5	104.4	90.5	82.2	77.6	74.8	73.9
35°	2186.8	1278.6	206.0	141.4	114.6	91.5	80.4	73.9	71.1	67.4	67.4
37.5°	2299.5	1238.9	179.2	129.3	101.6	82.2	72.1	67.4	63.7	61.0	60.1
40°	2439.9	1192.7	164.4	119.2	89.6	73.9	64.7	60.1	57.3	54.5	53.6
42.5°	2606.2	1147.4	157.1	108.1	80.4	65.6	58.2	52.7	49.9	46.2	45.3
45°	2841.8	1137.3	148.7	96.1	72.1	59.1	50.8	45.3	41.6	38.8	37.9
47.5°	3220.6	1165.9	134.9	83.1	63.7	51.7	43.4	38.8	34.2	31.4	29.6
50°	3596.6	1158.5	121.0	72.1	56.4	44.3	37.0	32.3	27.7	24.9	24.0
52.5°	3801.7	1123.4	108.1	63.7	49.0	37.9	31.4	25.9	23.1	20.3	19.4
55°	3987.4	1109.6	95.2	55.4	41.6	33.3	25.9	21.2	19.4	16.6	15.7
57.5°	4351.4	1141.9	84.1	48.0	36.0	28.6	22.2	17.6	15.7	12.9	12.0
60°	4732.0	1145.6	72.1	41.6	31.4	24.0	17.6	13.9	12.0	9.2	8.3
62.5°	4930.7	1052.3	59.1	35.1	25.9	20.3	14.8	11.1	9.2	5.5	5.5
65°	4764.4	850.9	49.9	28.6	20.3	15.7	11.1	8.3	5.5	2.8	0.9
67.5°	4216.5	605.1	41.6	23.1	14.8	11.1	8.3	5.5	0.9	0.0	0.0
70°	3087.6	345.5	32.3	16.6	11.1	7.4	5.5	2.8	0.0	0.0	0.0
72.5°	1897.6	184.8	24.0	11.1	8.3	5.5	4.6	1.8	0.0	0.0	0.0
75°	719.7	88.7	14.8	7.4	6.5	4.6	2.8	0.9	0.0	0.0	0.0
77.5°	194.9	43.4	8.3	5.5	4.6	2.8	1.8	0.0	0.0	0.0	0.0
80°	50.8	20.3	5.5	3.7	2.8	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	17.6	9.2	2.8	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0
85°	7.4	3.7	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	0.9	0.9	0.9	0.9	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)