

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: P642809

Luminaire Tested: GWS-SA6D-760-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-760-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30307.2 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

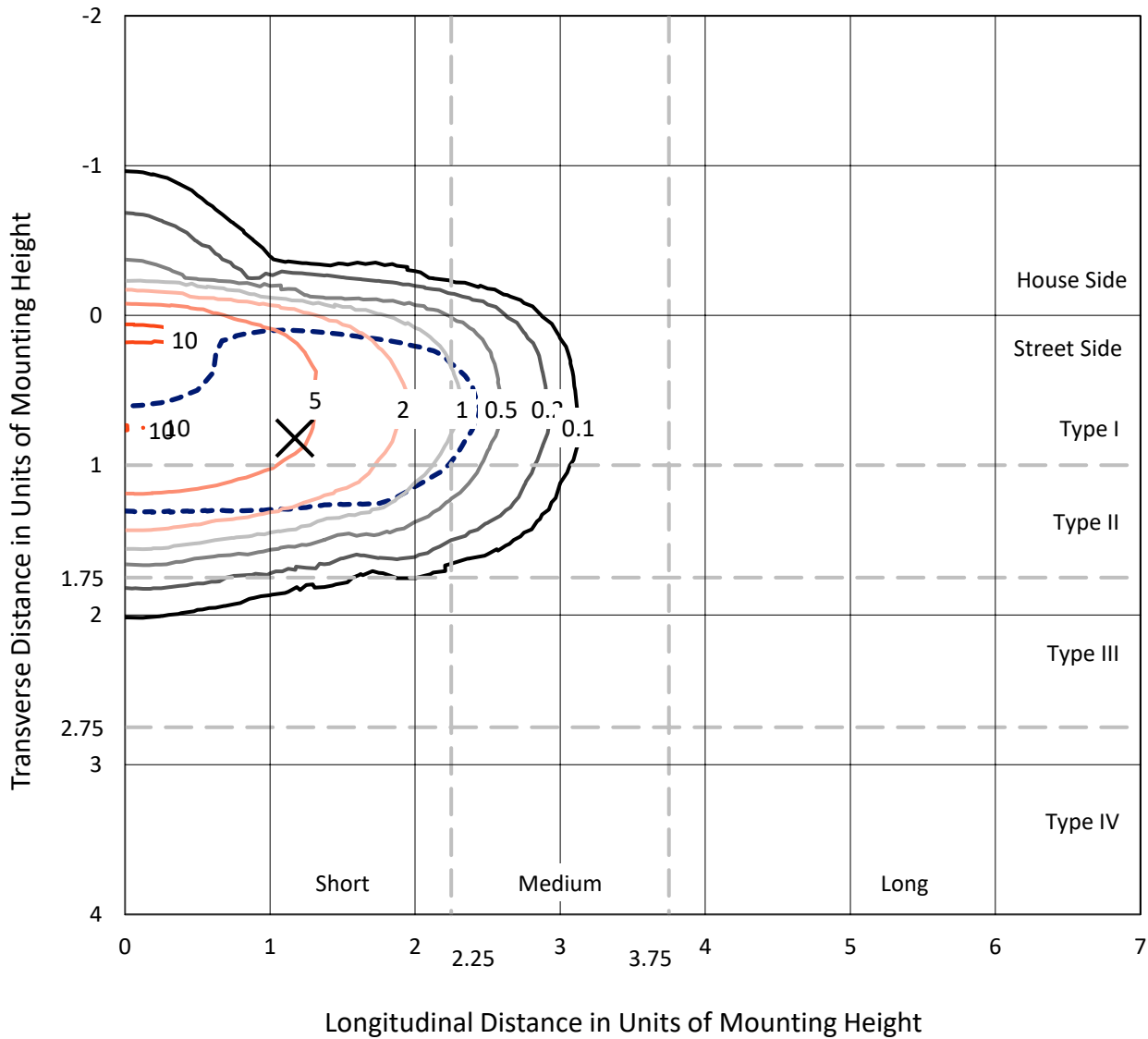
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

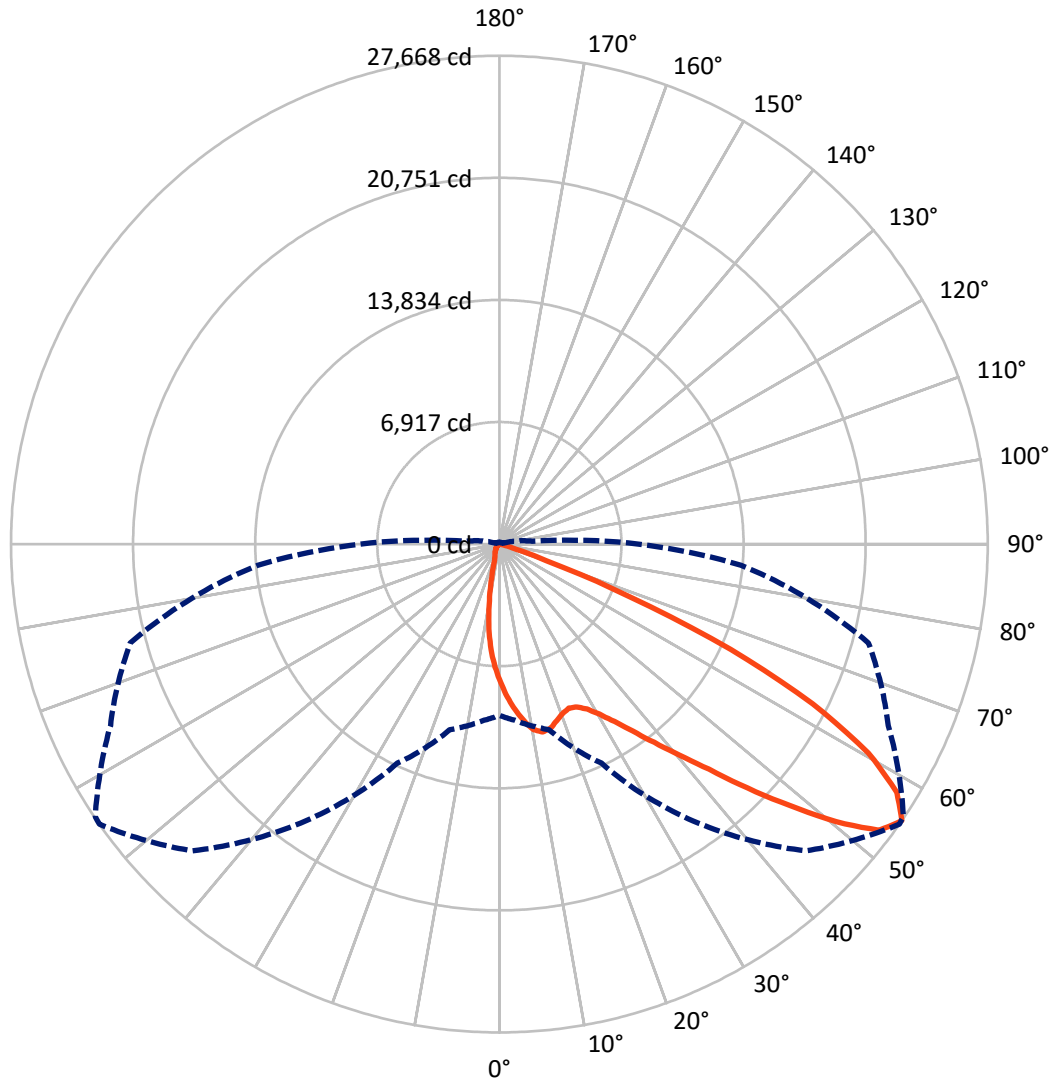
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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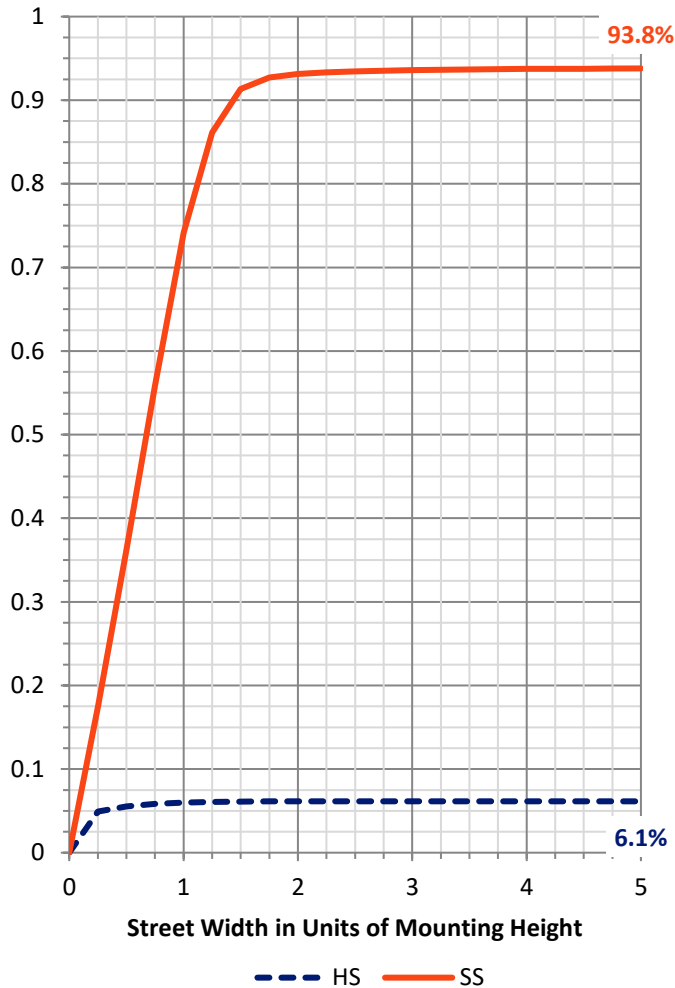
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1870.1	0.0	1870.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	28437.1	0.0	28437.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	30307.2	0.0	30307.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.9	2.3
10°-20°	1668.2	5.5
20°-30°	2778.2	9.2
30°-40°	4734.2	15.6
40°-50°	7727.9	25.5
50°-60°	8090.8	26.7
60°-70°	4080.8	13.5
70°-80°	515.5	1.7
80°-90°	19.6	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°	30307.2	100.0
0°-180°	30307.2	100.0

Coefficient of Utilization

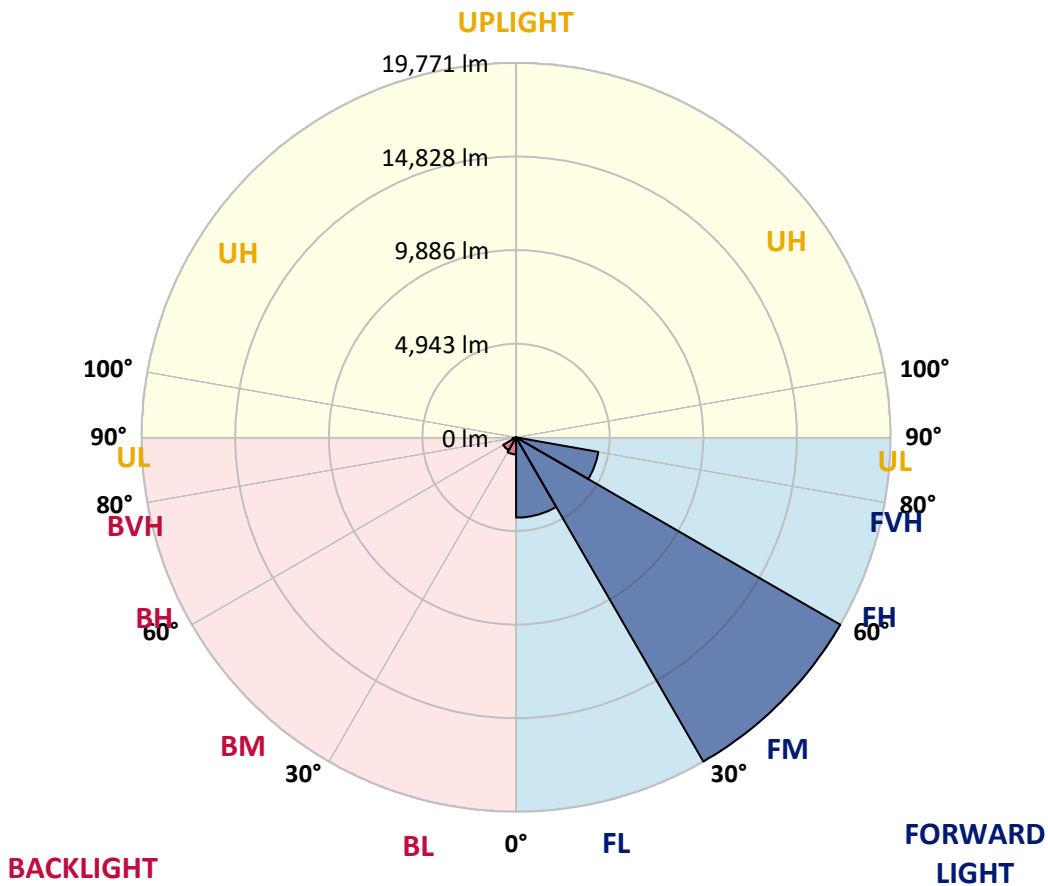


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4239.6	14.0			
FM (30°-60°)	19771.1	65.2			
FH (60°-80°)	4408.7	14.5			G2/5000
FVH (80°-90°)	17.8	0.1			G1/100
BL (0°-30°)	898.8	3.0	B2/1000		
BM (30°-60°)	781.9	2.6	B1/1000		
BH (60°-80°)	187.6	0.6	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7829.6	7829.6	7829.6	7829.6	7829.6	7829.6	7829.6	7829.6	7829.6	7829.6	7829.6
2.5°	9127.6	9083.6	9150.9	9073.2	8941.1	8829.7	8684.6	8632.8	8399.6	8179.4	7966.9
5°	10236.5	10249.5	10228.7	10119.9	9933.4	9726.1	9433.4	9368.6	8961.8	8542.1	8088.7
7.5°	10511.2	10503.4	10547.4	10588.9	10557.8	10454.2	10135.5	10070.7	9565.5	8935.9	8275.2
10°	9663.9	9669.1	9759.8	10039.6	10386.8	10746.9	10697.7	10661.4	10166.6	9381.5	8482.5
12.5°	8467.0	8513.6	8609.5	9008.5	9596.6	10415.3	10923.1	10959.4	10718.4	9871.2	8726.0
15°	7948.8	7959.1	8036.9	8277.8	8715.7	9726.1	10827.2	10928.3	11179.6	10363.5	8990.3
17.5°	7935.8	7948.8	7982.5	8088.7	8373.7	9184.6	10518.9	10695.1	11526.8	10892.0	9306.4
20°	8422.9	8415.1	8391.8	8334.8	8459.2	9005.9	10233.9	10428.2	11715.9	11407.6	9625.1
22.5°	9306.4	9296.0	9192.4	8956.6	8855.6	9169.1	10094.0	10270.2	11829.9	11866.2	9886.8
25°	10324.6	10397.2	10202.8	9845.3	9596.6	9586.2	10218.4	10342.7	11928.4	12272.9	10065.5
27.5°	11441.3	11464.6	11298.8	10897.2	10537.1	10254.7	10578.5	10671.8	12037.2	12635.7	10166.6
30°	12666.8	12659.0	12469.9	12003.5	11565.6	11158.9	11184.8	11221.1	12291.1	13050.2	10278.0
32.5°	14198.0	14231.6	13894.8	13260.1	12734.1	12171.9	11977.6	11982.8	12749.7	13583.9	10446.4
35°	16278.4	16195.5	15749.9	14845.7	13949.2	13343.0	13011.3	12982.8	13457.0	14301.6	10739.2
37.5°	18260.4	18268.2	17801.9	16807.0	15674.8	14718.7	14249.8	14172.1	14451.9	15296.5	11226.2
40°	19636.2	19662.1	19467.8	18947.0	17747.5	16395.0	15705.8	15625.5	15742.1	16555.7	11863.6
42.5°	20364.2	20436.8	20491.2	20613.0	19703.6	18488.4	17428.8	17421.0	17299.2	17991.0	12602.0
45°	20392.7	20501.5	20833.2	21664.8	21768.5	20877.2	19724.3	19550.7	19081.7	19527.4	13262.7
47.5°	19265.7	19517.0	20221.7	21869.5	22957.7	23253.0	22110.5	22004.2	20688.1	20742.5	13757.5
50°	16638.6	16900.2	18198.3	20820.2	23258.2	25139.2	24729.8	24509.6	22030.2	21545.7	13995.9
52.5°	13944.1	14182.4	15063.3	18322.6	22012.0	25732.5	26937.3	26675.6	23234.9	21825.5	13897.4
55°	9702.8	10021.5	10881.6	13695.3	19141.3	24577.0	27667.9	27613.5	24310.1	21649.3	13744.6
57.5°	4756.8	5072.9	5930.5	8443.6	14179.8	21457.6	26551.2	26838.8	24952.7	21460.2	13620.2
60°	1987.2	2116.7	2412.1	3704.9	7933.2	16216.2	24030.3	24429.3	24558.8	21203.7	13607.2
62.5°	1152.9	1173.7	1204.8	1536.4	3085.7	9296.0	19934.1	20501.5	22488.7	20864.3	13402.6
65°	870.5	878.3	865.4	943.1	1274.7	3526.2	14402.6	15174.7	18770.8	19537.7	12594.2
67.5°	715.1	715.1	681.4	696.9	800.6	1321.3	7951.4	9029.2	13889.6	16058.2	10399.7
70°	570.0	582.9	567.4	546.7	572.6	730.6	2829.2	3508.0	8088.7	9482.6	6065.2
72.5°	432.7	432.7	458.6	443.0	424.9	458.6	987.1	1108.9	3246.4	3953.7	2189.3
75°	334.2	344.6	362.7	347.2	321.3	272.0	474.1	502.6	979.3	919.8	489.7
77.5°	171.0	173.6	230.6	253.9	238.4	165.8	207.3	228.0	318.7	285.0	181.4
80°	103.6	108.8	129.5	199.5	158.0	88.1	85.5	90.7	150.3	129.5	75.1
82.5°	44.0	46.6	72.5	72.5	64.8	33.7	33.7	33.7	72.5	67.4	31.1
85°	0.0	0.0	13.0	10.4	10.4	13.0	13.0	13.0	18.1	25.9	15.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	7.8	7.8
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°	7829.6	7829.6	7829.6	7829.6	7829.6	7829.6	7829.6	7829.6	7829.6	7829.6	7829.6
2.5°	7829.6	7663.8	7441.0	7238.9	6966.8	6814.0	6601.5	6427.9	6280.3	6233.6	6212.9
5°	7832.2	7547.2	7070.5	6593.8	6008.2	5547.0	5072.9	4697.2	4388.9	4290.5	4264.6
7.5°	7884.0	7464.3	6692.2	5826.9	4847.5	4039.2	3316.3	2668.6	2368.1	2267.0	2246.3
10°	7954.0	7394.3	6254.4	4907.1	3500.3	2461.3	1743.7	1329.1	1132.2	1023.4	1038.9
12.5°	8044.6	7337.3	5769.9	3912.2	2316.2	1352.4	958.6	803.2	761.7	741.0	730.6
15°	8166.4	7270.0	5168.8	2925.1	1419.8	870.5	738.4	696.9	681.4	671.0	668.4
17.5°	8290.8	7192.3	4557.3	2057.1	943.1	722.9	663.3	642.5	632.2	624.4	621.8
20°	8422.9	7060.1	3839.7	1417.2	743.6	650.3	611.4	588.1	575.2	562.2	559.6
22.5°	8479.9	6847.7	3153.1	992.3	660.7	598.5	549.3	520.8	505.2	494.9	494.9
25°	8425.5	6503.1	2443.2	753.9	601.1	541.5	492.3	461.2	448.2	437.9	437.9
27.5°	8280.4	6060.0	1782.5	624.4	536.3	481.9	435.3	406.8	396.4	391.2	391.2
30°	8119.8	5500.4	1256.6	536.3	463.8	419.7	380.9	362.7	360.1	354.9	354.9
32.5°	7982.5	4977.1	865.4	471.5	409.4	365.3	339.4	331.6	334.2	329.0	331.6
35°	7907.3	4464.1	642.5	419.7	365.3	323.9	310.9	310.9	310.9	308.3	308.3
37.5°	7938.4	3958.8	523.4	383.4	326.4	295.4	282.4	287.6	292.8	292.8	292.8
40°	8093.9	3510.6	463.8	349.8	292.8	269.5	259.1	266.9	274.6	279.8	279.8
42.5°	8290.8	3147.9	419.7	321.3	269.5	243.5	238.4	246.1	253.9	259.1	259.1
45°	8415.1	2782.6	375.7	285.0	246.1	215.0	215.0	225.4	222.8	225.4	225.4
47.5°	8472.1	2492.4	331.6	246.1	209.9	186.5	189.1	194.3	189.1	194.3	194.3
50°	8332.2	2199.6	292.8	204.7	173.6	163.2	168.4	165.8	165.8	176.2	176.2
52.5°	8075.7	1982.0	259.1	173.6	147.7	145.1	150.3	139.9	142.5	142.5	139.9
55°	7886.6	1857.7	230.6	150.3	127.0	129.5	127.0	108.8	98.5	88.1	85.5
57.5°	7793.3	1808.4	209.9	134.7	114.0	114.0	103.6	75.1	57.0	44.0	38.9
60°	7772.6	1748.8	189.1	116.6	101.0	95.9	75.1	44.0	28.5	20.7	18.1
62.5°	7575.7	1603.7	171.0	93.3	88.1	77.7	46.6	25.9	15.5	10.4	7.8
65°	6930.6	1318.8	152.9	72.5	67.4	57.0	28.5	15.5	7.8	2.6	0.0
67.5°	5513.4	935.3	134.7	54.4	46.6	36.3	18.1	10.4	2.6	0.0	0.0
70°	3179.0	505.2	111.4	38.9	31.1	23.3	13.0	5.2	0.0	0.0	0.0
72.5°	1062.3	235.8	85.5	25.9	23.3	18.1	7.8	2.6	0.0	0.0	0.0
75°	233.2	139.9	57.0	18.1	15.5	13.0	5.2	0.0	0.0	0.0	0.0
77.5°	88.1	98.5	28.5	13.0	10.4	7.8	2.6	0.0	0.0	0.0	0.0
80°	33.7	64.8	13.0	7.8	7.8	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	18.1	25.9	7.8	5.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.4	13.0	5.2	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	2.6	2.6	2.6	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)