

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: P640224

Luminaire Tested: GWS-SA5D-740-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640224
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-SA5D-740-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25192.2 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

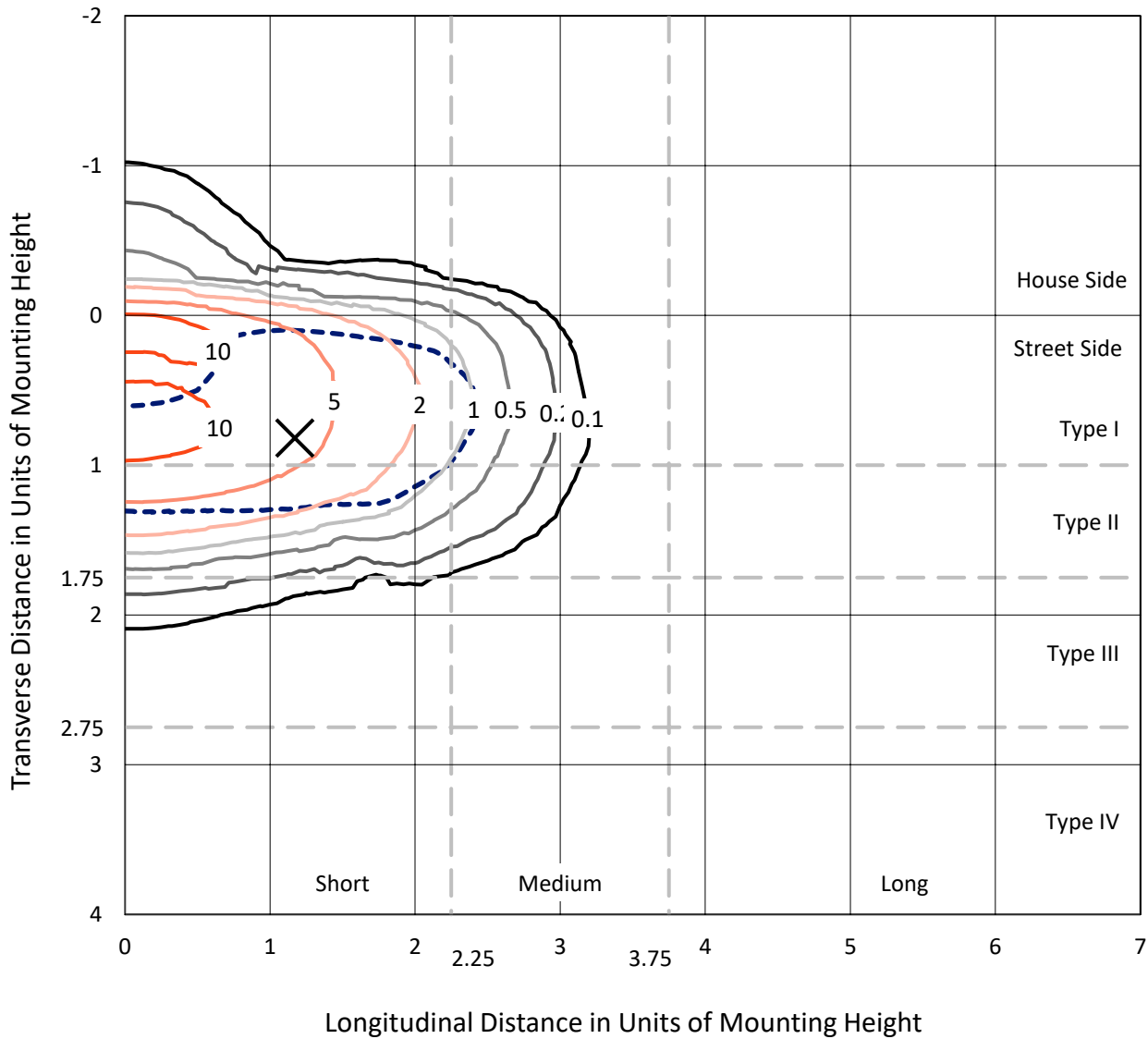
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

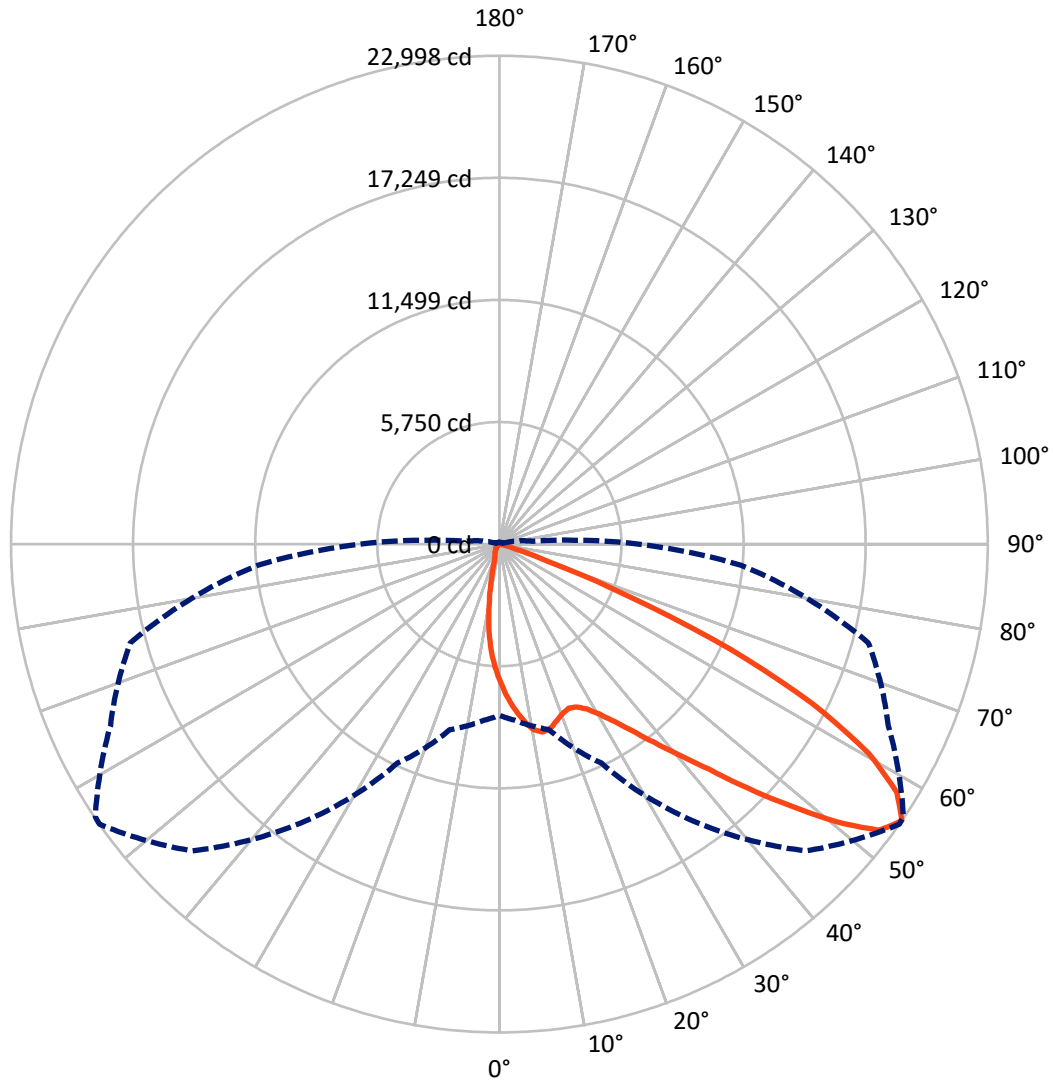
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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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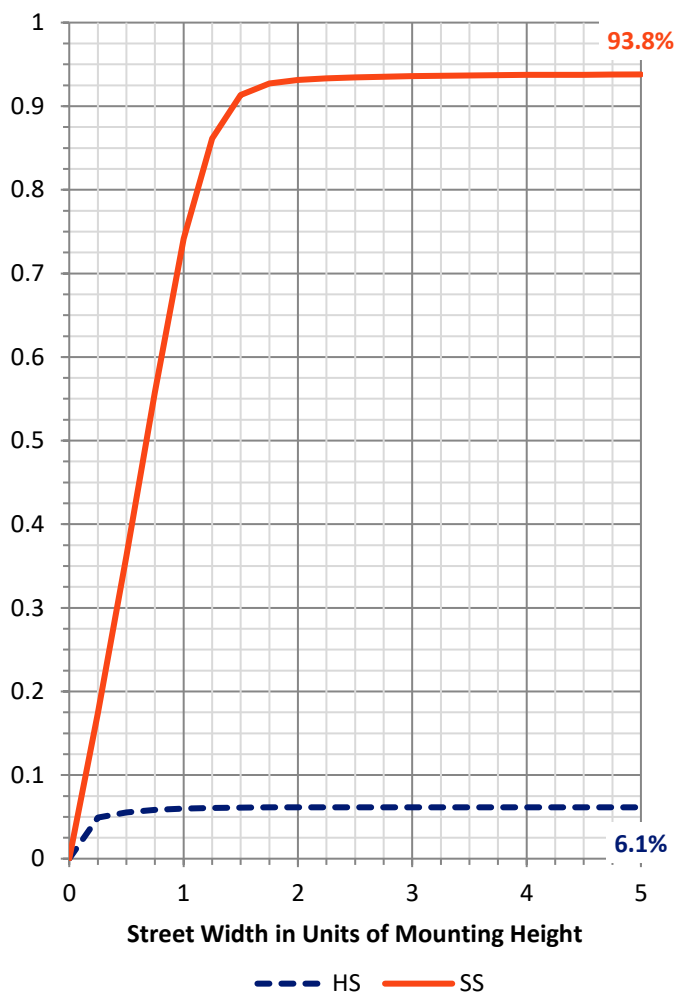
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1554.5	0.0	1554.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	23637.7	0.0	23637.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	25192.2	0.0	25192.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.2	2.3
10°-20°	1386.7	5.5
20°-30°	2309.3	9.2
30°-40°	3935.2	15.6
40°-50°	6423.7	25.5
50°-60°	6725.3	26.7
60°-70°	3392.1	13.5
70°-80°	428.5	1.7
80°-90°	16.3	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°	25192.2	100.0
0°-180°	25192.2	100.0

Coefficient of Utilization



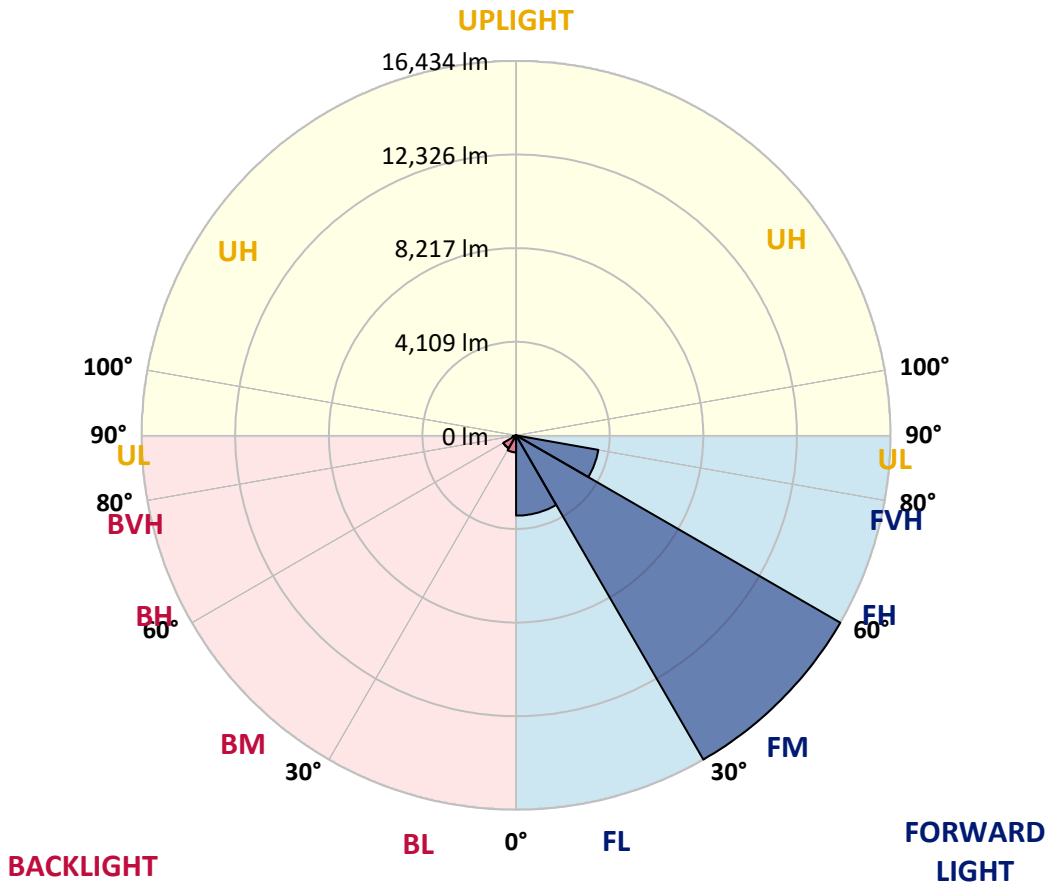
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3524.0	14.0			
FM (30°-60°)	16434.3	65.2			
FH (60°-80°)	3664.6	14.5			G2/5000
FVH (80°-90°)	14.8	0.1			G1/100
BL (0°-30°)	747.1	3.0	B2/1000		
BM (30°-60°)	649.9	2.6	B1/1000		
BH (60°-80°)	155.9	0.6	B1/500		G1/500
BVH (80°-90°)	1.5	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°	6508.2	6508.2	6508.2	6508.2	6508.2	6508.2	6508.2	6508.2	6508.2	6508.2	6508.2
2.5°	7587.1	7550.5	7606.5	7541.9	7432.1	7339.5	7218.9	7175.8	6982.0	6798.9	6622.3
5°	8508.9	8519.7	8502.4	8412.0	8256.9	8084.6	7841.3	7787.4	7449.3	7100.4	6723.5
7.5°	8737.2	8730.7	8767.3	8801.8	8775.9	8689.8	8424.9	8371.1	7951.1	7427.8	6878.6
10°	8032.9	8037.2	8112.6	8345.2	8633.8	8933.1	8892.2	8862.1	8450.7	7798.2	7050.9
12.5°	7038.0	7076.7	7156.4	7488.1	7976.9	8657.5	9079.6	9109.7	8909.5	8205.2	7253.3
15°	6607.3	6615.9	6680.5	6880.8	7244.7	8084.6	8999.9	9083.9	9292.8	8614.4	7473.0
17.5°	6596.5	6607.3	6635.3	6723.5	6960.4	7634.5	8743.6	8890.1	9581.4	9053.7	7735.7
20°	7001.4	6994.9	6975.5	6928.1	7031.5	7485.9	8506.7	8668.3	9738.6	9482.3	8000.6
22.5°	7735.7	7727.1	7641.0	7445.0	7361.0	7621.6	8390.4	8536.9	9833.4	9863.5	8218.1
25°	8582.1	8642.4	8480.9	8183.7	7976.9	7968.3	8493.8	8597.2	9915.2	10201.6	8366.7
27.5°	9510.3	9529.7	9391.9	9058.1	8758.7	8524.0	8793.2	8870.7	10005.6	10503.1	8450.7
30°	10529.0	10522.5	10365.3	9977.6	9613.7	9275.6	9297.1	9327.3	10216.7	10847.7	8543.3
32.5°	11801.7	11829.7	11549.8	11022.1	10585.0	10117.6	9956.1	9960.4	10597.9	11291.3	8683.3
35°	13531.1	13462.2	13091.8	12340.1	11595.0	11091.1	10815.4	10791.7	11185.8	11887.9	8926.7
37.5°	15178.6	15185.1	14797.4	13970.4	13029.3	12234.6	11844.8	11780.2	12012.8	12714.9	9331.6
40°	16322.2	16343.7	16182.2	15749.3	14752.2	13628.0	13055.1	12988.4	13085.3	13761.5	9861.3
42.5°	16927.3	16987.6	17032.8	17134.1	16378.2	15368.1	14487.3	14480.8	14379.6	14954.6	10475.1
45°	16951.0	17041.5	17317.1	18008.4	18094.6	17353.7	16395.4	16251.1	15861.3	16231.7	11024.3
47.5°	16014.2	16223.1	16808.9	18178.6	19083.1	19328.6	18378.8	18290.6	17196.5	17241.7	11435.6
50°	13830.4	14048.0	15126.9	17306.4	19332.9	20896.4	20556.1	20373.1	18312.1	17909.4	11633.8
52.5°	11590.7	11788.8	12521.0	15230.3	18297.0	21389.6	22391.0	22173.5	19313.5	18142.0	11551.9
55°	8065.2	8330.1	9045.1	11383.9	15910.8	20429.1	22998.3	22953.1	20207.3	17995.5	11424.9
57.5°	3954.0	4216.8	4929.6	7018.6	11786.7	17836.1	22070.1	22309.2	20741.4	17838.3	11321.5
60°	1651.8	1759.5	2005.0	3079.7	6594.3	13479.4	19974.7	20306.3	20414.0	17625.1	11310.7
62.5°	958.4	975.6	1001.4	1277.1	2564.9	7727.1	16569.8	17041.5	18693.3	17343.0	11140.6
65°	723.6	730.1	719.3	783.9	1059.6	2931.1	11971.9	12613.7	15602.9	16240.3	10468.7
67.5°	594.4	594.4	566.4	579.3	665.5	1098.3	6609.4	7505.3	11545.5	13348.0	8644.6
70°	473.8	484.6	471.6	454.4	475.9	607.3	2351.7	2916.0	6723.5	7882.2	5041.6
72.5°	359.7	359.7	381.2	368.3	353.2	381.2	820.5	921.7	2698.5	3286.4	1819.8
75°	277.8	286.4	301.5	288.6	267.0	226.1	394.1	417.8	814.1	764.5	407.0
77.5°	142.1	144.3	191.7	211.1	198.1	137.8	172.3	189.5	264.9	236.9	150.8
80°	86.1	90.5	107.7	165.8	131.4	73.2	71.1	75.4	124.9	107.7	62.5
82.5°	36.6	38.8	60.3	60.3	53.8	28.0	28.0	28.0	60.3	56.0	25.8
85°	0.0	0.0	10.8	8.6	8.6	10.8	10.8	10.8	15.1	21.5	12.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.5	6.5
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°	6508.2	6508.2	6508.2	6508.2	6508.2	6508.2	6508.2	6508.2	6508.2	6508.2	6508.2
2.5°	6508.2	6370.4	6185.1	6017.2	5791.0	5664.0	5487.4	5343.1	5220.3	5181.6	5164.3
5°	6510.3	6273.4	5877.2	5480.9	4994.2	4610.9	4216.8	3904.5	3648.2	3566.4	3544.8
7.5°	6553.4	6204.5	5562.8	4843.5	4029.4	3357.5	2756.6	2218.2	1968.4	1884.4	1867.2
10°	6611.6	6146.4	5198.8	4078.9	2909.5	2045.9	1449.4	1104.8	941.1	850.7	863.6
12.5°	6686.9	6099.0	4796.1	3251.9	1925.3	1124.2	796.8	667.6	633.2	615.9	607.3
15°	6788.2	6043.0	4296.4	2431.4	1180.2	723.6	613.8	579.3	566.4	557.8	555.6
17.5°	6891.5	5978.4	3788.2	1710.0	783.9	600.9	551.3	534.1	525.5	519.0	516.9
20°	7001.4	5868.6	3191.6	1178.0	618.1	540.6	508.3	488.9	478.1	467.3	465.2
22.5°	7048.7	5692.0	2620.9	824.8	549.2	497.5	456.6	432.9	420.0	411.3	411.3
25°	7003.5	5405.5	2030.8	626.7	499.6	450.1	409.2	383.3	372.6	364.0	364.0
27.5°	6882.9	5037.3	1481.7	519.0	445.8	400.6	361.8	338.1	329.5	325.2	325.2
30°	6749.4	4572.1	1044.5	445.8	385.5	348.9	316.6	301.5	299.4	295.0	295.0
32.5°	6635.3	4137.1	719.3	392.0	340.3	303.7	282.1	275.7	277.8	273.5	275.7
35°	6572.8	3710.7	534.1	348.9	303.7	269.2	258.4	258.4	258.4	256.3	256.3
37.5°	6598.6	3290.7	435.0	318.7	271.4	245.5	234.7	239.0	243.4	243.4	243.4
40°	6727.9	2918.1	385.5	290.7	243.4	224.0	215.4	221.8	228.3	232.6	232.6
42.5°	6891.5	2616.6	348.9	267.0	224.0	202.4	198.1	204.6	211.1	215.4	215.4
45°	6994.9	2313.0	312.3	236.9	204.6	178.7	178.7	187.4	185.2	187.4	187.4
47.5°	7042.3	2071.8	275.7	204.6	174.4	155.1	157.2	161.5	157.2	161.5	161.5
50°	6926.0	1828.4	243.4	170.1	144.3	135.7	140.0	137.8	137.8	146.4	146.4
52.5°	6712.8	1647.5	215.4	144.3	122.8	120.6	124.9	116.3	118.4	118.4	116.3
55°	6555.6	1544.1	191.7	124.9	105.5	107.7	105.5	90.5	81.8	73.2	71.1
57.5°	6478.0	1503.2	174.4	112.0	94.8	94.8	86.1	62.5	47.4	36.6	32.3
60°	6460.8	1453.7	157.2	96.9	84.0	79.7	62.5	36.6	23.7	17.2	15.1
62.5°	6297.1	1333.1	142.1	77.5	73.2	64.6	38.8	21.5	12.9	8.6	6.5
65°	5760.9	1096.2	127.1	60.3	56.0	47.4	23.7	12.9	6.5	2.2	0.0
67.5°	4582.9	777.5	112.0	45.2	38.8	30.2	15.1	8.6	2.2	0.0	0.0
70°	2642.5	420.0	92.6	32.3	25.8	19.4	10.8	4.3	0.0	0.0	0.0
72.5°	883.0	196.0	71.1	21.5	19.4	15.1	6.5	2.2	0.0	0.0	0.0
75°	193.8	116.3	47.4	15.1	12.9	10.8	4.3	0.0	0.0	0.0	0.0
77.5°	73.2	81.8	23.7	10.8	8.6	6.5	2.2	0.0	0.0	0.0	0.0
80°	28.0	53.8	10.8	6.5	6.5	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	15.1	21.5	6.5	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.6	10.8	4.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.2	2.2	2.2	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)