

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: P643469

Luminaire Tested: GWS-SA6F-722-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643469
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-SAGF-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30743.3 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

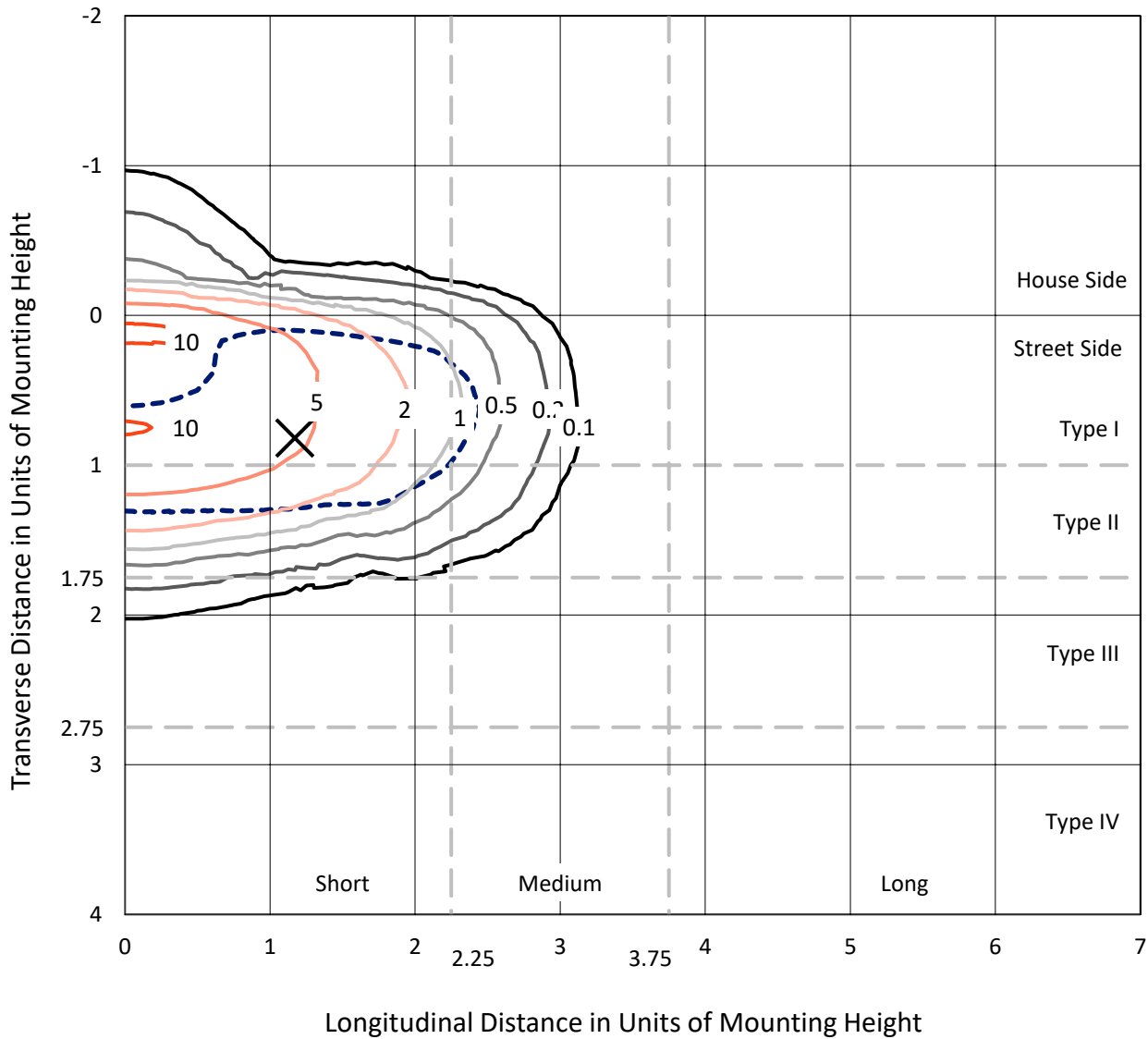
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

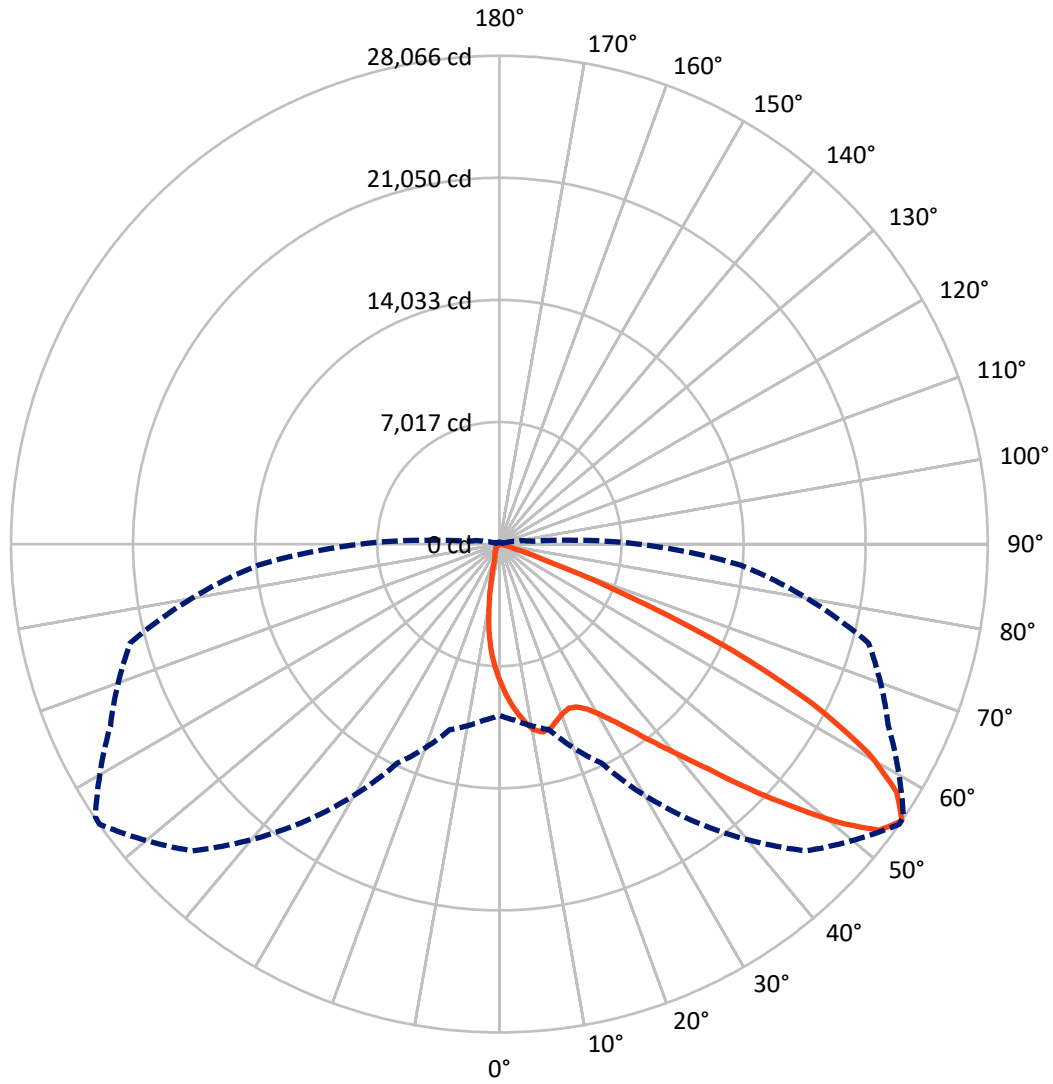
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.6 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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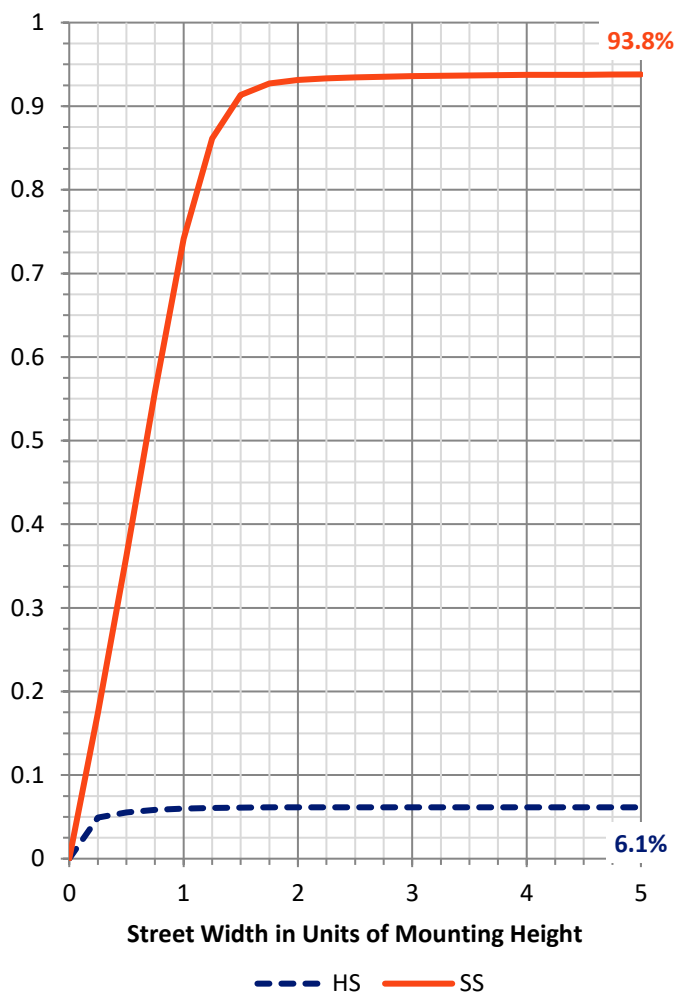
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1897.0	0.0	1897.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	28846.3	0.0	28846.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	30743.3	0.0	30743.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.9	2.3
10°-20°	1692.2	5.5
20°-30°	2818.2	9.2
30°-40°	4802.4	15.6
40°-50°	7839.1	25.5
50°-60°	8207.2	26.7
60°-70°	4139.5	13.5
70°-80°	522.9	1.7
80°-90°	19.9	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°	30743.3	100.0
0°-180°	30743.3	100.0

Coefficient of Utilization

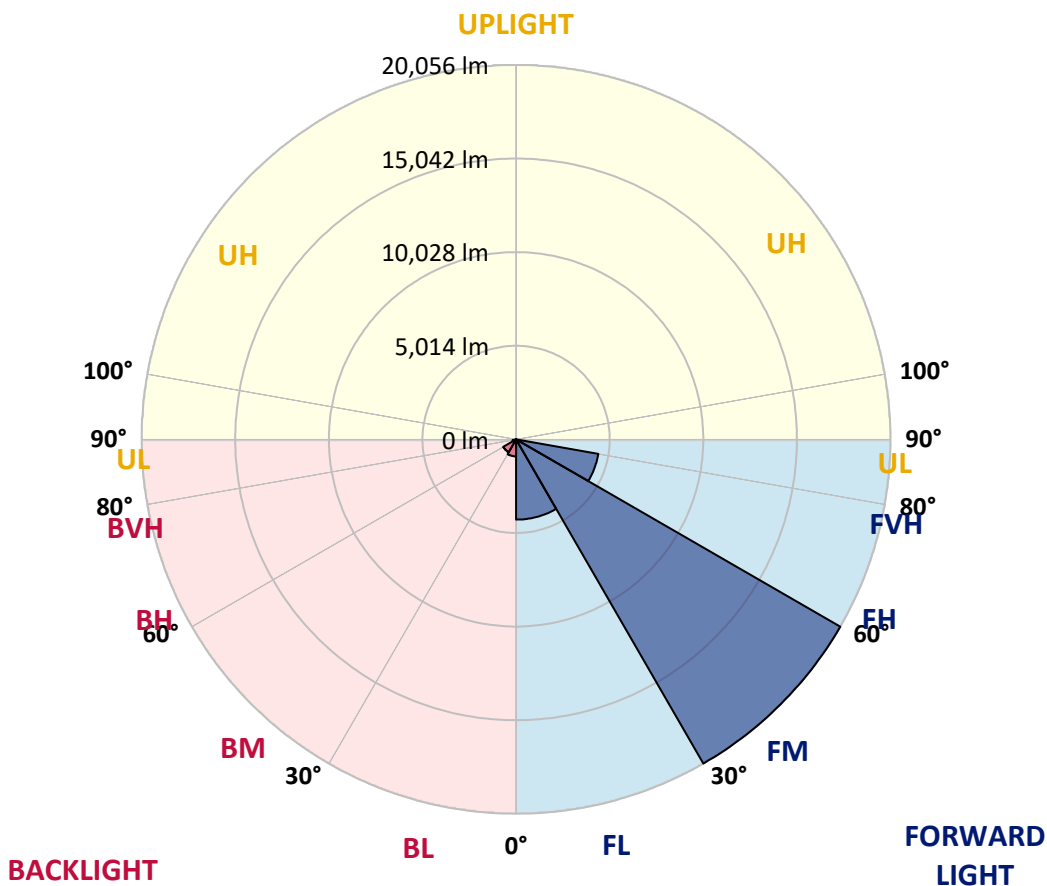


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4300.6	14.0			
FM (30°-60°)	20055.6	65.2			
FH (60°-80°)	4472.1	14.5			G2/5000
FVH (80°-90°)	18.1	0.1			G1/100
BL (0°-30°)	911.8	3.0	B2/1000		
BM (30°-60°)	793.1	2.6	B1/1000		
BH (60°-80°)	190.3	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°	7942.3	7942.3	7942.3	7942.3	7942.3	7942.3	7942.3	7942.3	7942.3	7942.3	7942.3
2.5°	9259.0	9214.3	9282.6	9203.8	9069.7	8956.7	8809.6	8757.0	8520.5	8297.1	8081.6
5°	10383.8	10397.0	10375.9	10265.6	10076.3	9866.1	9569.1	9503.4	9090.8	8665.0	8205.1
7.5°	10662.4	10654.5	10699.2	10741.2	10709.7	10604.6	10281.3	10215.6	9703.1	9064.5	8394.3
10°	9803.0	9808.3	9900.2	10184.1	10536.3	10901.6	10851.6	10814.8	10312.9	9516.5	8604.6
12.5°	8588.8	8636.1	8733.3	9138.1	9734.7	10565.2	11080.3	11117.1	10872.7	10013.2	8851.6
15°	8063.2	8073.7	8152.5	8396.9	8841.1	9866.1	10983.0	11085.5	11340.5	10512.6	9119.7
17.5°	8050.0	8063.2	8097.3	8205.1	8494.2	9316.8	10670.3	10849.0	11692.6	11048.7	9440.3
20°	8544.1	8536.2	8512.6	8454.8	8580.9	9135.4	10381.2	10578.3	11884.5	11571.7	9763.6
22.5°	9440.3	9429.8	9324.7	9085.5	8983.0	9301.0	10239.3	10418.0	12000.1	12036.9	10029.0
25°	10473.2	10546.8	10349.7	9987.0	9734.7	9724.2	10365.4	10491.6	12100.0	12449.5	10210.4
27.5°	11605.9	11629.6	11461.4	11054.0	10688.7	10402.2	10730.7	10825.3	12210.4	12817.5	10312.9
30°	12849.0	12841.1	12649.3	12176.2	11732.1	11319.4	11345.7	11382.5	12467.9	13238.0	10425.9
32.5°	14402.3	14436.4	14094.8	13450.9	12917.4	12347.0	12149.9	12155.2	12933.1	13779.4	10596.7
35°	16512.7	16428.6	15976.5	15059.3	14150.0	13535.0	13198.6	13169.7	13650.6	14507.4	10893.7
37.5°	18523.2	18531.1	18058.0	17048.8	15900.3	14930.5	14454.8	14376.0	14659.8	15516.6	11387.8
40°	19918.7	19945.0	19747.9	19219.7	18002.8	16630.9	15931.8	15850.4	15968.6	16793.9	12034.3
42.5°	20657.3	20730.8	20786.0	20909.6	19987.1	18754.5	17679.6	17671.7	17548.2	18249.9	12783.3
45°	20686.2	20796.5	21133.0	21976.6	22081.7	21177.6	20008.1	19832.0	19356.3	19808.4	13453.5
47.5°	19542.9	19797.9	20512.7	22184.2	23288.0	23587.6	22428.6	22320.9	20985.8	21041.0	13955.5
50°	16878.0	17143.4	18460.1	21119.8	23592.9	25500.9	25085.7	24862.3	22347.2	21855.7	14197.3
52.5°	14144.7	14386.5	15280.1	18586.3	22328.8	26102.8	27324.9	27059.4	23569.2	22139.5	14097.4
55°	9842.4	10165.7	11038.2	13892.4	19416.8	24930.6	28066.0	28010.8	24659.9	21960.8	13942.3
57.5°	4825.3	5145.9	6015.8	8565.1	14383.9	21766.3	26933.3	27225.0	25311.7	21769.0	13816.2
60°	2015.8	2147.2	2446.8	3758.3	8047.4	16449.6	24376.1	24780.8	24912.2	21508.8	13803.0
62.5°	1169.5	1190.6	1222.1	1558.5	3130.1	9429.8	20221.0	20796.5	22812.3	21164.5	13595.4
65°	883.1	890.9	877.8	956.6	1293.0	3576.9	14609.9	15393.1	19040.9	19818.9	12775.4
67.5°	725.4	725.4	691.2	707.0	812.1	1340.4	8065.8	9159.1	14089.5	16289.3	10549.4
70°	578.2	591.3	575.6	554.5	580.8	741.1	2869.9	3558.5	8205.1	9619.0	6152.5
72.5°	438.9	438.9	465.2	449.4	431.0	465.2	1001.3	1124.8	3293.1	4010.6	2220.8
75°	339.0	349.5	367.9	352.2	325.9	276.0	481.0	509.9	993.4	933.0	496.7
77.5°	173.5	176.1	233.9	257.6	241.8	168.2	210.3	231.3	323.3	289.1	184.0
80°	105.1	110.4	131.4	202.4	160.3	89.4	86.7	92.0	152.4	131.4	76.2
82.5°	44.7	47.3	73.6	73.6	65.7	34.2	34.2	34.2	73.6	68.3	31.5
85°	0.0	0.0	13.1	10.5	10.5	13.1	13.1	13.1	18.4	26.3	15.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	7.9	7.9
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°	7942.3	7942.3	7942.3	7942.3	7942.3	7942.3	7942.3	7942.3	7942.3	7942.3	7942.3
2.5°	7942.3	7774.1	7548.0	7343.0	7067.1	6912.0	6696.5	6520.4	6370.6	6323.3	6302.3
5°	7944.9	7655.8	7172.2	6688.6	6094.7	5626.9	5145.9	4764.8	4452.1	4352.2	4325.9
7.5°	7997.5	7571.7	6788.5	5910.7	4917.3	4097.3	3364.0	2707.0	2402.1	2299.6	2278.6
10°	8068.4	7500.7	6344.4	4977.7	3550.6	2496.7	1768.7	1348.2	1148.5	1038.1	1053.9
12.5°	8160.4	7442.9	5852.9	3968.5	2349.6	1371.9	972.4	814.7	772.7	751.7	741.1
15°	8283.9	7374.6	5243.2	2967.2	1440.2	883.1	749.0	707.0	691.2	680.7	678.1
17.5°	8410.1	7295.7	4622.9	2086.8	956.6	733.3	672.8	651.8	641.3	633.4	630.8
20°	8544.1	7161.7	3894.9	1437.6	754.3	659.7	620.2	596.6	583.4	570.3	567.7
22.5°	8601.9	6946.2	3198.5	1006.6	670.2	607.1	557.2	528.3	512.5	502.0	502.0
25°	8546.7	6596.7	2478.3	764.8	609.7	549.3	499.3	467.8	454.7	444.2	444.2
27.5°	8399.6	6147.2	1808.2	633.4	544.0	488.8	441.5	412.6	402.1	396.9	396.9
30°	8236.6	5579.6	1274.7	544.0	470.4	425.8	386.3	367.9	365.3	360.1	360.1
32.5°	8097.3	5048.7	877.8	478.3	415.2	370.6	344.3	336.4	339.0	333.8	336.4
35°	8021.1	4528.3	651.8	425.8	370.6	328.5	315.4	315.4	315.4	312.7	312.7
37.5°	8052.7	4015.8	530.9	389.0	331.1	299.6	286.5	291.7	297.0	297.0	297.0
40°	8210.3	3561.1	470.4	354.8	297.0	273.3	262.8	270.7	278.6	283.8	283.8
42.5°	8410.1	3193.2	425.8	325.9	273.3	247.0	241.8	249.7	257.6	262.8	262.8
45°	8536.2	2822.6	381.1	289.1	249.7	218.1	218.1	228.6	226.0	228.6	228.6
47.5°	8594.0	2528.3	336.4	249.7	212.9	189.2	191.9	197.1	191.9	197.1	197.1
50°	8452.1	2231.3	297.0	207.6	176.1	165.6	170.8	168.2	168.2	178.7	178.7
52.5°	8191.9	2010.5	262.8	176.1	149.8	147.2	152.4	141.9	144.5	144.5	141.9
55°	8000.1	1884.4	233.9	152.4	128.8	131.4	128.8	110.4	99.9	89.4	86.7
57.5°	7905.5	1834.4	212.9	136.7	115.6	115.6	105.1	76.2	57.8	44.7	39.4
60°	7884.4	1774.0	191.9	118.3	102.5	97.2	76.2	44.7	28.9	21.0	18.4
62.5°	7684.7	1626.8	173.5	94.6	89.4	78.8	47.3	26.3	15.8	10.5	7.9
65°	7030.3	1337.7	155.1	73.6	68.3	57.8	28.9	15.8	7.9	2.6	0.0
67.5°	5592.7	948.8	136.7	55.2	47.3	36.8	18.4	10.5	2.6	0.0	0.0
70°	3224.7	512.5	113.0	39.4	31.5	23.7	13.1	5.3	0.0	0.0	0.0
72.5°	1077.5	239.2	86.7	26.3	23.7	18.4	7.9	2.6	0.0	0.0	0.0
75°	236.5	141.9	57.8	18.4	15.8	13.1	5.3	0.0	0.0	0.0	0.0
77.5°	89.4	99.9	28.9	13.1	10.5	7.9	2.6	0.0	0.0	0.0	0.0
80°	34.2	65.7	13.1	7.9	7.9	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	18.4	26.3	7.9	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.5	13.1	5.3	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	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)