

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P651444

Luminaire Tested: **GALN-SA6D-840-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31608.1 lumens
Efficiency: N/A
Efficacy: 85.9 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): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

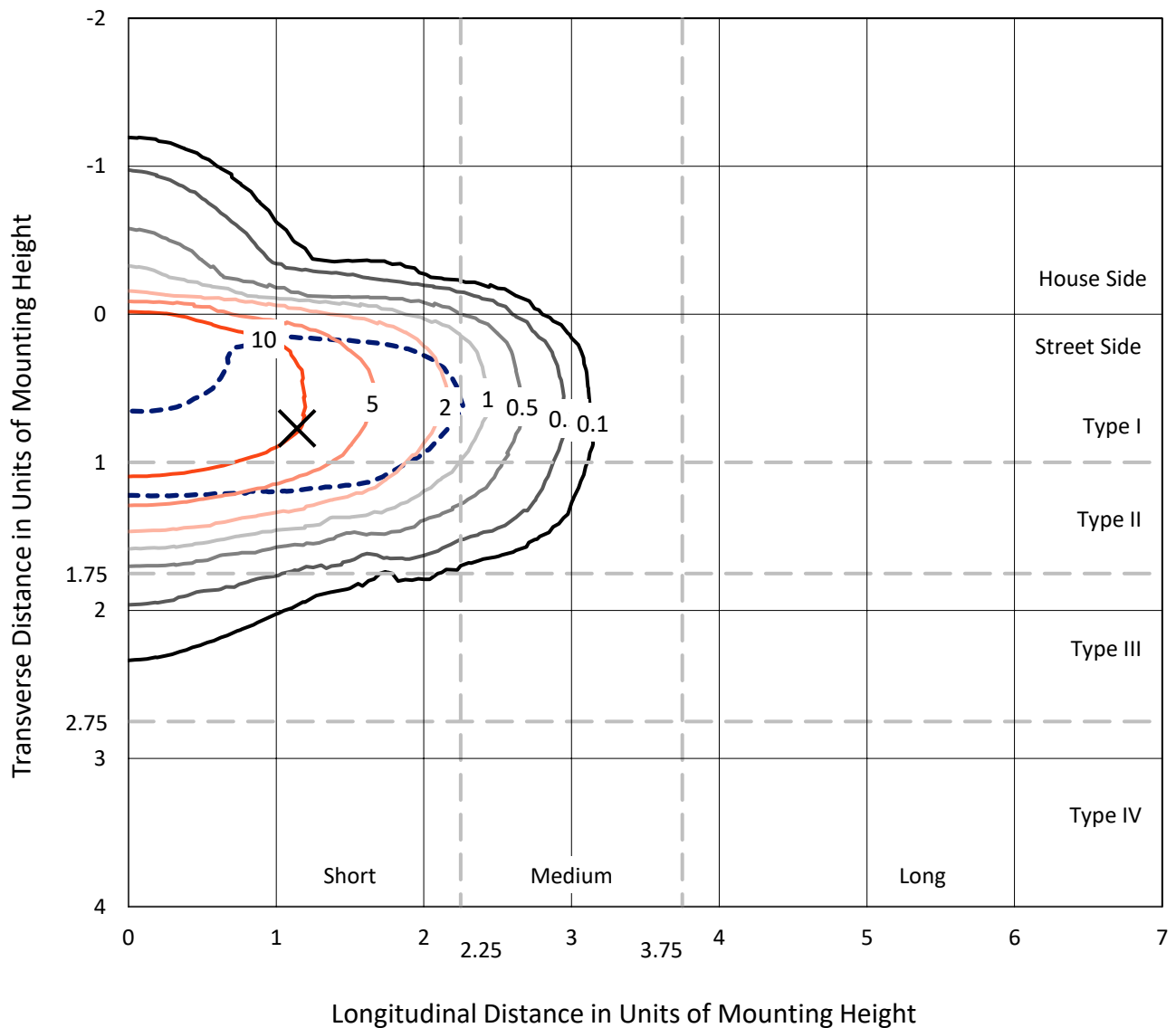




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Iso-Footcandle Lines of Horizontal Illumination

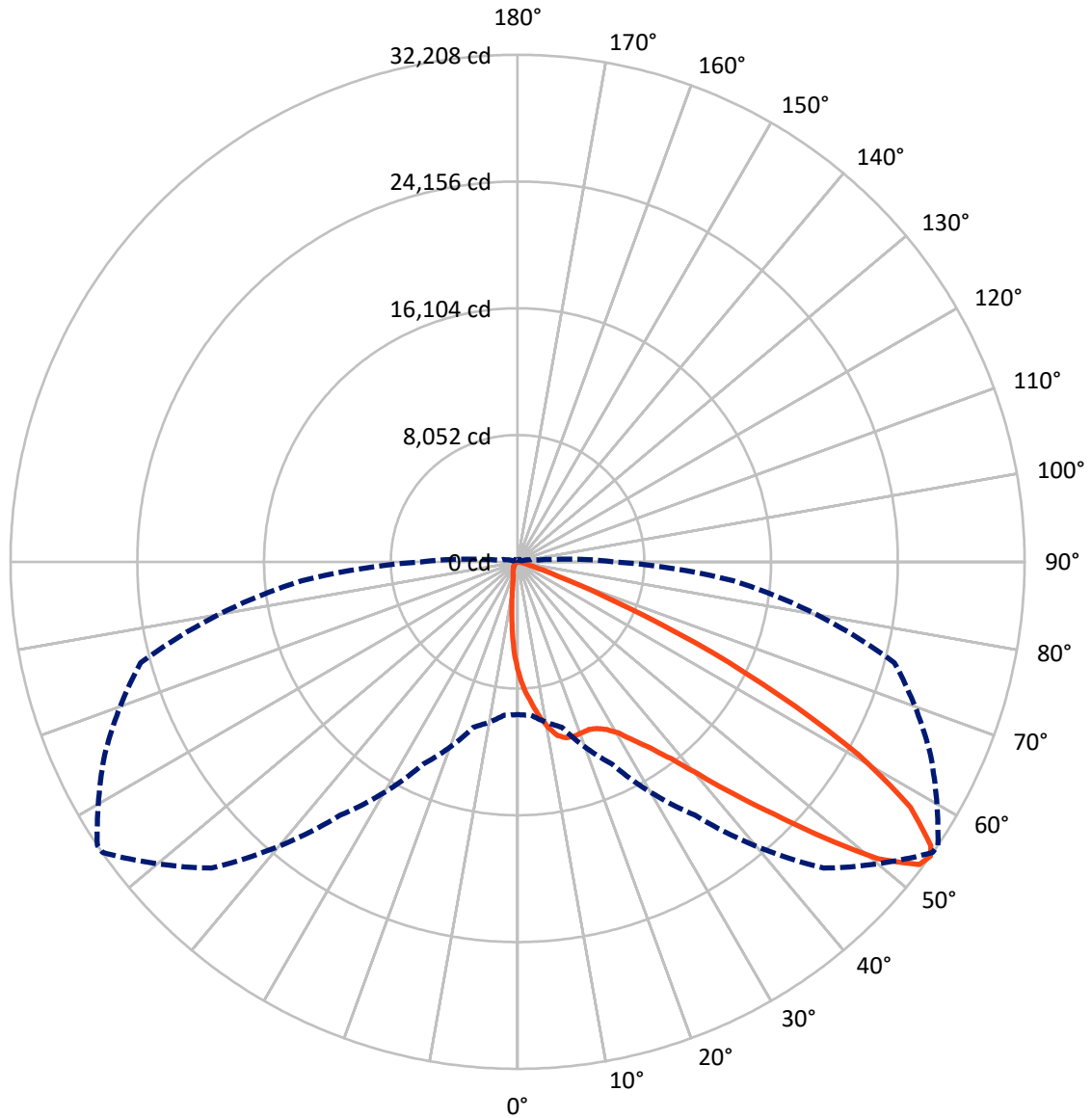
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1494.7	0.0	1494.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	30113.5	0.0	30113.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	31608.1	0.0	31608.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.5	2.0
10°-20°	1677.5	5.3
20°-30°	2905.3	9.2
30°-40°	5015.1	15.9
40°-50°	8535.9	27.0
50°-60°	8447.3	26.7
60°-70°	3855.5	12.2
70°-80°	495.1	1.6
80°-90°	55.8	0.2
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°	31608.1	100.0
0°-180°	31608.1	100.0

Coefficient of Utilization

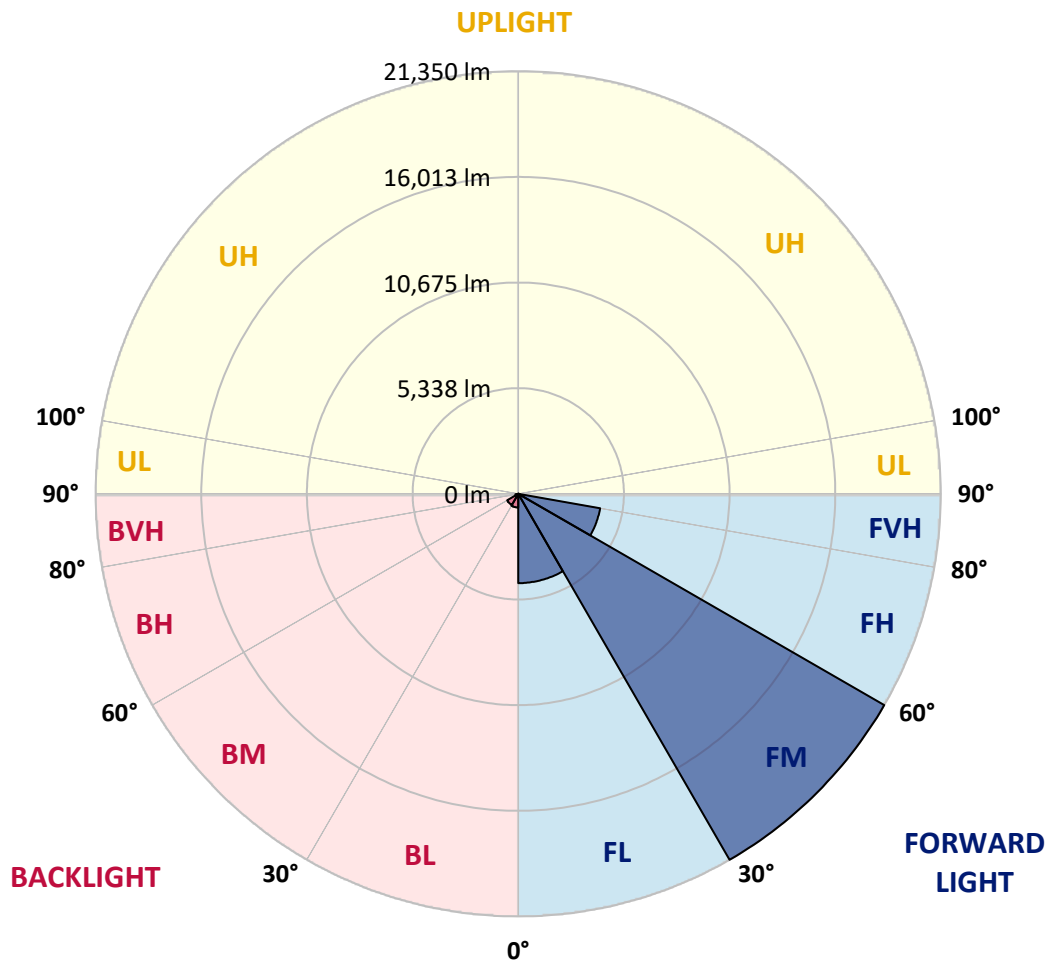


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4512.2	14.3			
FM (30°-60°)	21350.5	67.5			
FH (60°-80°)	4201.0	13.3			G2/5000
FVH (80°-90°)	49.8	0.2			G1/100
BL (0°-30°)	691.3	2.2	B2/1000		
BM (30°-60°)	647.8	2.0	B1/1000		
BH (60°-80°)	149.7	0.5	B1/500		G1/500
BVH (80°-90°)	6.0	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°	7022.4	7022.4	7022.4	7022.4	7022.4	7022.4	7022.4	7022.4	7022.4	7022.4	7022.4
2.5°	8924.6	8862.8	8777.5	8711.4	8555.7	8331.8	8095.0	8095.0	7866.9	7549.2	7225.0
5°	10293.8	10253.2	10170.0	9999.4	9824.6	9511.1	9035.5	8952.4	8545.1	7969.2	7363.6
7.5°	10850.3	10869.5	10873.8	10829.0	10745.8	10436.6	9965.3	9907.7	9257.3	8485.4	7544.9
10°	10317.2	10411.0	10502.7	10688.3	10950.6	11025.2	10758.6	10698.9	10059.1	9007.8	7741.1
12.5°	9523.9	9575.0	9626.3	9918.4	10445.1	11048.6	11328.0	11325.8	10784.2	9528.1	7990.6
15°	9155.0	9199.7	9204.0	9334.1	9790.4	10669.0	11571.1	11603.1	11492.2	10170.0	8259.3
17.5°	9231.7	9268.0	9238.1	9270.1	9508.9	10251.0	11543.4	11650.0	12065.8	10786.3	8502.4
20°	9732.9	9803.2	9688.1	9598.5	9671.0	10140.2	11449.5	11598.8	12471.0	11387.7	8724.2
22.5°	10632.8	10671.2	10526.2	10280.9	10153.0	10372.6	11424.0	11571.1	12816.5	11880.3	8852.1
25°	11633.0	11620.2	11460.2	11185.1	10916.4	10841.8	11592.4	11724.6	13102.3	12323.9	8890.5
27.5°	12633.1	12671.5	12402.8	12061.6	11739.6	11545.5	11969.9	12068.0	13424.3	12829.3	8937.4
30°	13795.3	13733.5	13469.0	13078.8	12709.9	12439.1	12577.7	12605.4	13867.8	13498.9	9061.1
32.5°	15307.3	15136.7	14840.3	14157.9	13893.4	13435.0	13469.0	13503.2	14407.3	14162.1	9210.4
35°	17358.8	17350.3	16770.2	15851.1	15207.0	14637.7	14488.4	14516.2	15224.1	15147.3	9541.0
37.5°	19828.3	19862.4	19201.3	18275.8	17090.1	16185.9	15878.8	15883.0	16465.3	16507.9	10044.2
40°	21839.3	21928.8	21534.3	20909.4	19738.7	18324.8	17808.8	17761.8	18209.7	18156.3	10762.9
42.5°	22705.1	22788.2	22935.3	23152.9	22508.9	21342.4	20124.7	20188.6	20325.1	19952.0	11569.0
45°	22280.7	22412.9	22990.8	24334.3	24939.9	24547.5	23095.3	22871.4	22293.5	21903.3	12379.4
47.5°	20512.8	20834.8	21800.8	24037.9	26157.6	27484.0	26447.6	26151.2	24263.9	23327.7	12895.4
50°	17606.2	17625.3	18971.0	21830.7	25526.4	29337.2	29870.4	29648.5	26100.0	24127.4	13155.6
52.5°	12763.2	13183.3	14415.9	17727.7	22792.4	29055.7	32051.9	31960.2	27993.7	24536.8	13530.9
54°	9703.0	9784.0	10880.2	14166.4	19651.2	27509.6	32186.2	32207.6	28934.2	24784.3	13752.7
55°	7954.3	7760.2	8911.8	12068.0	17508.1	26142.7	31747.0	31849.3	29356.4	24912.2	13916.9
57.5°	3770.3	3772.5	4653.2	6365.6	10965.5	20299.6	29062.1	29424.7	29403.3	25131.9	14422.3
60°	1908.6	1921.4	2115.5	2938.6	5416.6	13494.7	24029.4	24893.0	27140.7	25163.8	14588.7
62.5°	1335.0	1320.0	1288.1	1413.9	2279.7	6858.2	17889.8	18640.4	23059.0	23946.2	14059.8
65°	1143.0	1111.0	1021.5	1002.3	1151.6	2731.7	11142.5	12366.6	17606.2	20734.6	12554.2
67.5°	976.7	963.9	882.9	833.9	814.6	1189.9	5749.3	6393.4	12033.9	14904.3	9508.9
70°	829.6	823.2	774.1	712.2	658.9	712.2	2132.5	2642.2	6706.8	8024.7	4486.8
72.5°	673.9	680.3	688.8	609.9	554.5	505.4	910.6	1059.8	2806.4	2868.2	1569.6
75°	590.7	584.3	584.3	531.0	462.7	375.3	501.2	539.5	859.4	797.6	364.7
77.5°	415.9	400.9	469.2	437.2	386.0	266.6	285.8	302.8	356.2	304.9	170.6
80°	287.9	287.9	300.7	392.4	347.6	194.0	174.8	187.6	211.1	181.2	98.1
82.5°	162.1	166.3	196.2	209.0	202.6	130.1	115.1	117.3	140.8	123.7	61.8
85°	19.2	32.0	113.0	110.9	83.2	57.6	64.0	66.1	87.5	76.8	36.2
87.5°	2.1	4.3	23.5	29.9	21.4	23.5	23.5	23.5	29.9	34.1	25.6
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°	7022.4	7022.4	7022.4	7022.4	7022.4	7022.4	7022.4	7022.4	7022.4	7022.4	7022.4
2.5°	7050.1	6888.0	6502.1	6054.3	5768.5	5303.6	4911.2	4627.6	4557.2	4420.7	4461.3
5°	7041.6	6704.7	5917.8	5086.1	4198.9	3537.8	3045.3	2657.1	2486.5	2373.5	2294.6
7.5°	7045.9	6519.2	5256.7	3932.3	2872.5	2224.2	1767.9	1531.1	1373.4	1307.3	1315.7
10°	7058.7	6310.2	4489.0	2913.1	1938.5	1437.4	1158.0	1044.9	991.6	983.1	980.9
12.5°	7088.5	6081.9	3755.4	2162.4	1356.3	1044.9	938.3	900.0	882.9	882.9	876.5
15°	7120.5	5830.3	3145.5	1607.9	1044.9	897.8	848.7	829.6	818.9	818.9	816.8
17.5°	7120.5	5540.3	2576.1	1247.5	900.0	825.3	786.9	761.3	752.8	752.8	750.7
20°	7075.8	5203.4	2070.7	1004.4	816.8	757.1	718.6	691.0	680.3	676.0	673.9
22.5°	6920.1	4753.4	1648.4	863.7	748.5	697.4	648.3	616.3	607.8	603.5	605.6
25°	6642.8	4245.9	1305.1	759.2	686.7	624.9	582.1	558.8	550.2	550.2	552.3
27.5°	6357.0	3714.9	1034.3	680.3	612.0	556.6	522.4	507.5	505.4	511.8	513.9
30°	6092.6	3181.8	838.1	616.3	545.9	499.0	475.6	471.3	471.3	473.4	475.6
32.5°	5798.4	2714.7	701.6	560.9	492.6	452.1	439.3	439.3	443.5	443.5	447.8
35°	5612.8	2313.8	616.3	507.5	452.1	418.0	409.5	411.6	418.0	426.5	430.8
37.5°	5512.6	1993.9	560.9	464.9	413.7	390.2	381.7	386.0	400.9	415.9	418.0
40°	5521.1	1753.0	516.0	428.7	383.8	358.3	351.9	364.7	379.6	394.5	396.6
42.5°	5614.9	1573.8	473.4	386.0	358.3	322.0	319.9	332.7	339.1	354.0	356.2
45°	5725.9	1443.7	428.7	341.2	311.3	279.4	281.5	292.2	300.7	324.1	328.4
47.5°	5759.9	1354.2	377.4	290.1	255.9	245.2	247.3	253.7	270.8	292.2	294.3
50°	5798.4	1298.7	328.4	245.2	217.5	215.4	217.5	221.8	232.5	240.9	238.8
52.5°	5962.5	1296.6	287.9	213.3	185.5	189.8	191.9	189.8	181.2	168.5	164.2
54°	6116.1	1303.0	268.7	198.3	170.6	177.0	174.8	164.2	142.9	130.1	123.7
55°	6239.8	1309.4	258.0	187.6	162.1	164.2	166.3	145.0	117.3	104.5	100.2
57.5°	6482.9	1294.5	232.5	164.2	142.9	134.3	132.2	96.0	64.0	55.4	51.2
60°	6361.3	1168.7	211.1	140.8	121.5	108.7	89.6	53.3	32.0	23.5	23.5
62.5°	5883.6	991.6	187.6	115.1	100.2	83.2	46.9	29.9	14.9	8.5	6.4
65°	5263.1	833.9	168.5	91.7	78.9	53.3	25.6	19.2	6.4	0.0	0.0
67.5°	3913.2	618.5	142.9	72.5	59.7	34.1	17.1	10.7	2.1	0.0	0.0
70°	1812.7	377.4	121.5	55.4	42.6	25.6	12.8	6.4	0.0	0.0	0.0
72.5°	520.3	236.7	100.2	40.5	29.9	21.4	10.7	4.3	2.1	0.0	0.0
75°	181.2	189.8	74.6	29.9	23.5	14.9	8.5	4.3	2.1	0.0	0.0
77.5°	108.7	153.6	46.9	25.6	19.2	12.8	8.5	4.3	2.1	2.1	0.0
80°	61.8	102.3	29.9	21.4	17.1	10.7	6.4	4.3	2.1	2.1	0.0
82.5°	34.1	49.0	23.5	19.2	14.9	10.7	6.4	4.3	2.1	2.1	2.1
85°	27.8	25.6	19.2	17.1	12.8	8.5	6.4	2.1	0.0	0.0	0.0
87.5°	21.4	17.1	17.1	17.1	12.8	8.5	6.4	2.1	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)