

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: P383525

Luminaire Tested: **GLEON-SA8B-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA 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: 34925.6 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

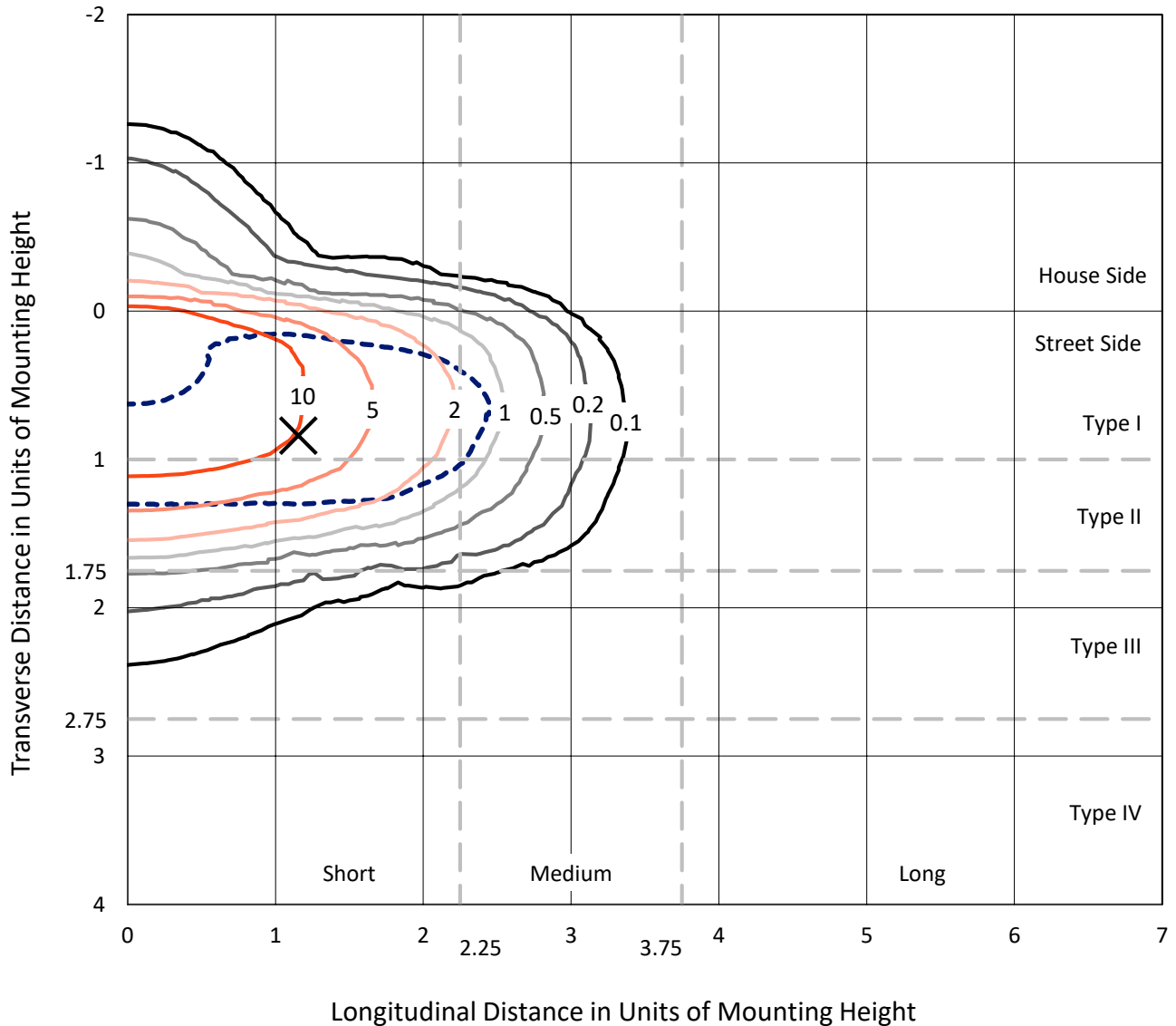
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

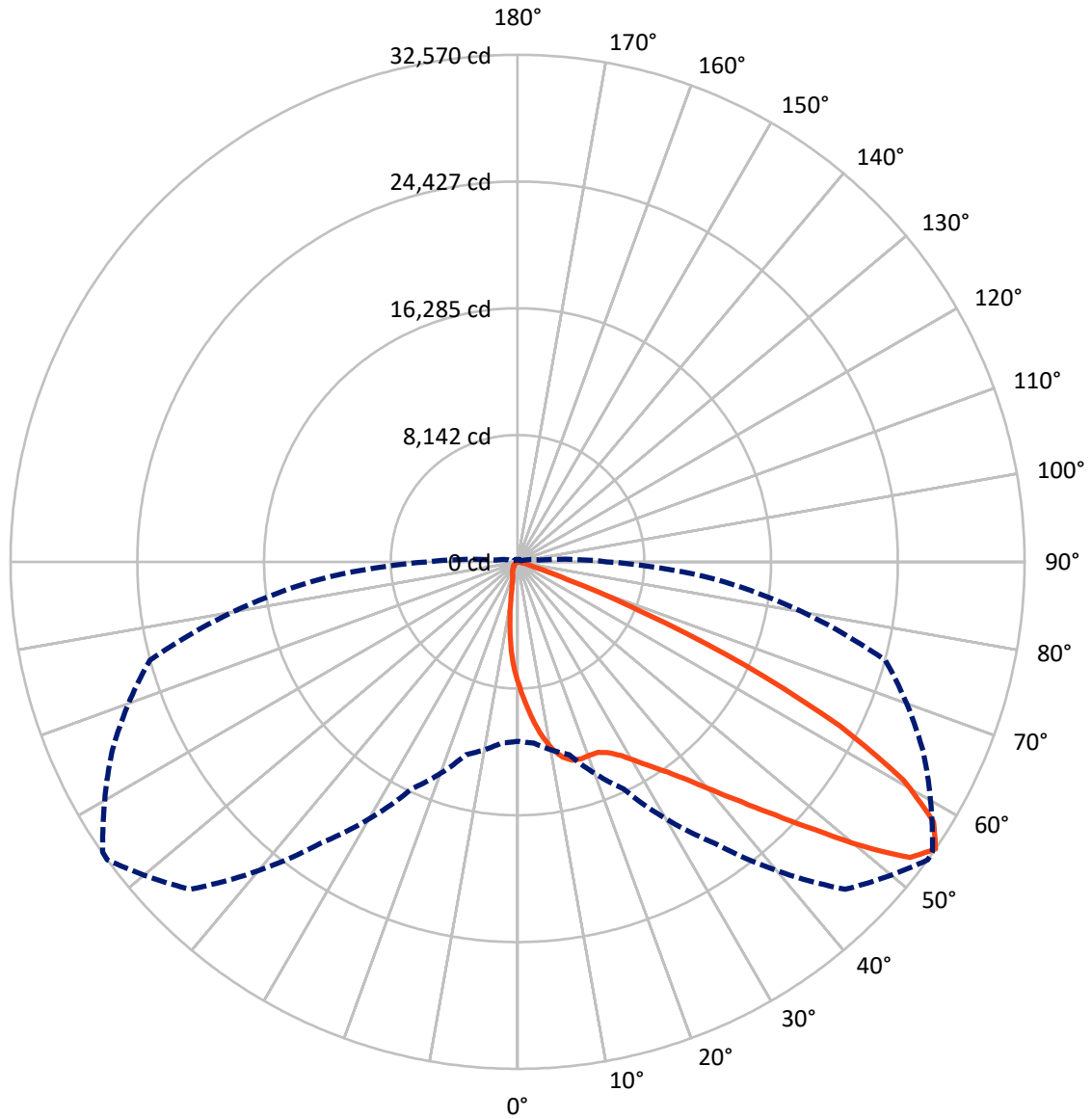
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1742.5	0.0	1742.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	33183.1	0.0	33183.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	34925.6	0.0	34925.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.3	2.1
10°-20°	1975.5	5.7
20°-30°	3372.8	9.7
30°-40°	5412.7	15.5
40°-50°	8649.6	24.8
50°-60°	9268.3	26.5
60°-70°	4758.6	13.6
70°-80°	720.8	2.1
80°-90°	46.9	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°	34925.6	100.0
0°-180°	34925.6	100.0

Coefficient of Utilization



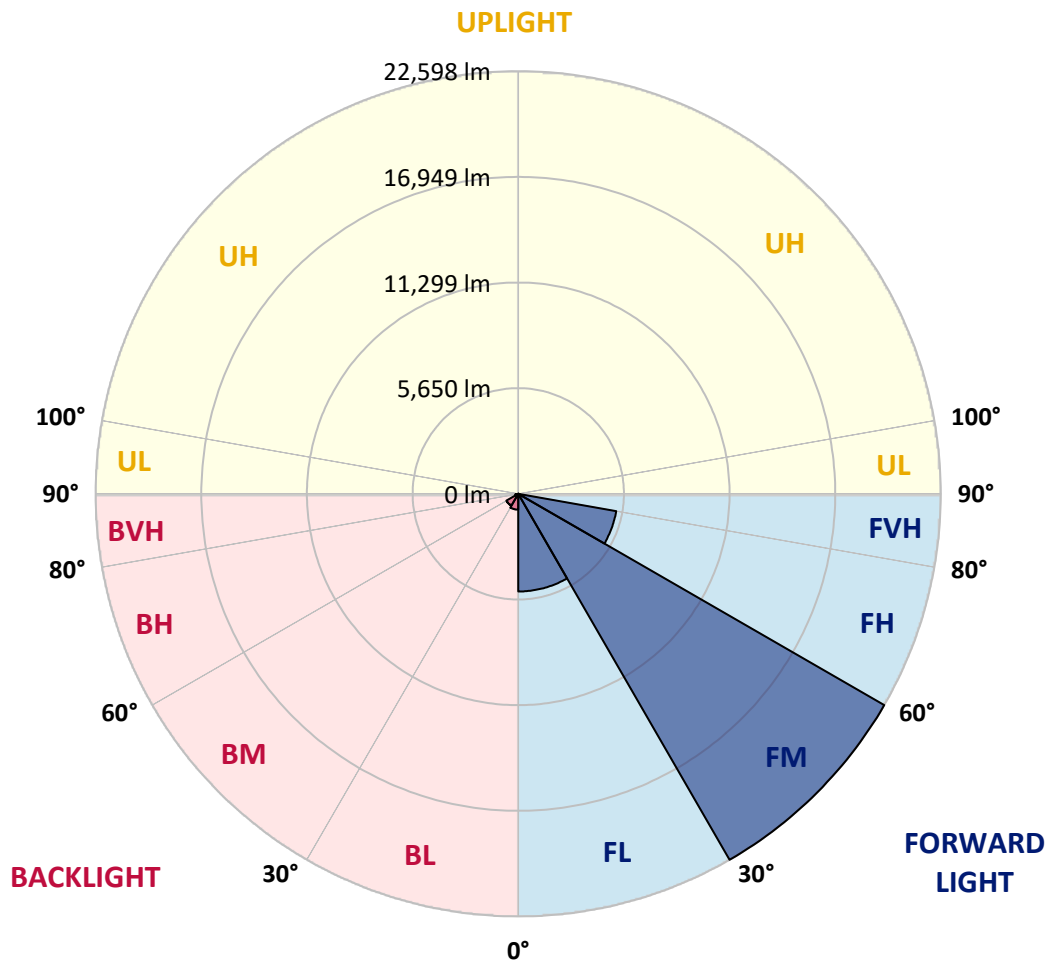
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5220.8	14.9			
FM (30°-60°)	22598.4	64.7			
FH (60°-80°)	5318.8	15.2			G3/7500
FVH (80°-90°)	45.0	0.1			G1/100
BL (0°-30°)	847.8	2.4	B2/1000		
BM (30°-60°)	732.2	2.1	B1/1000		
BH (60°-80°)	160.6	0.5	B1/500		G1/500
BVH (80°-90°)	1.9	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7821.9	7821.9	7821.9	7821.9	7821.9	7821.9	7821.9	7821.9	7821.9	7821.9	7821.9
2.5°	9815.9	9669.6	9674.1	9607.7	9364.9	9174.8	8977.2	8930.5	8622.9	8300.1	7989.3
5°	11512.7	11405.6	11380.0	11251.8	10913.9	10556.4	10173.3	10084.4	9482.5	8821.9	8171.8
7.5°	12384.5	12386.0	12364.9	12318.1	12107.0	11760.0	11292.5	11199.0	10380.0	9389.1	8361.9
10°	12131.1	12188.4	12306.0	12461.4	12622.7	12579.1	12227.6	12143.2	11253.3	9989.4	8573.0
12.5°	11539.8	11547.4	11678.6	11933.5	12398.1	12874.6	12880.7	12852.0	12087.3	10616.8	8805.4
15°	11245.7	11274.3	11322.7	11487.0	11927.4	12690.7	13236.6	13277.3	12852.0	11283.5	9052.7
17.5°	11438.8	11479.5	11438.8	11458.4	11713.3	12399.6	13298.5	13402.5	13520.2	11942.5	9286.5
20°	11962.2	11999.8	11927.4	11847.5	11897.3	12315.1	13254.7	13395.0	14043.5	12527.7	9482.5
22.5°	12668.0	12683.1	12573.0	12441.7	12405.6	12601.7	13290.9	13435.7	14462.8	13057.1	9606.2
25°	13444.7	13458.3	13321.1	13170.3	13084.3	13164.3	13588.1	13696.6	14832.4	13562.4	9677.1
27.5°	14291.0	14303.0	14131.0	13945.5	13846.0	13849.0	14078.3	14194.4	15226.1	14138.6	9734.4
30°	15185.3	15179.3	15020.9	14763.0	14636.3	14633.3	14784.1	14901.8	15796.2	14877.7	9812.8
32.5°	16189.8	16177.8	15953.0	15633.3	15490.1	15511.1	15645.3	15713.3	16503.6	15665.0	9953.1
35°	17512.6	17477.9	17138.5	16741.9	16478.0	16470.4	16583.5	16637.8	17405.5	16618.3	10186.9
37.5°	19229.0	19197.3	18737.3	18161.2	17790.1	17651.3	17785.6	17855.0	18692.1	17841.4	10562.4
40°	20921.3	20889.7	20616.6	20088.7	19517.1	19183.8	19289.4	19363.2	20298.4	19325.6	11036.0
42.5°	22088.8	22115.9	22210.9	22254.7	21719.2	21019.3	21067.6	21144.5	21986.2	20912.3	11577.6
45°	22396.5	22455.2	22992.2	24046.5	24247.1	23701.1	23195.8	23238.0	23701.1	22499.0	12119.0
47.5°	21471.8	21580.4	22616.7	24577.4	26275.7	26661.8	25705.6	25649.8	25346.6	23782.5	12503.6
50°	19370.8	19470.4	20812.7	23713.1	26891.1	29488.3	28713.1	28548.7	26790.0	24550.2	12639.3
52.5°	16330.1	16450.8	17541.2	20992.2	25731.2	30749.3	31560.7	31423.4	27848.8	24610.6	12662.0
55°	11532.3	11678.6	12832.4	16088.8	22055.5	29746.3	32569.8	32529.0	28728.2	24450.7	12710.2
57.5°	6481.1	6586.7	7831.0	10313.6	16153.7	25909.2	31515.5	31785.4	29259.1	24173.2	12782.7
60°	2877.8	2906.4	3550.5	5134.1	9456.9	19800.7	28497.4	28952.9	28803.5	23802.2	12904.8
62.5°	1595.7	1571.6	1571.6	2134.2	4110.1	12257.8	23238.0	23990.7	26859.4	23363.2	12910.9
65°	1250.3	1227.8	1162.9	1171.9	1565.6	5440.3	16091.8	17429.6	23167.1	22076.7	12476.5
67.5°	1060.3	1040.7	975.9	950.2	972.8	1794.8	8841.5	10230.6	17579.0	18732.8	10806.8
70°	896.0	882.4	849.2	817.5	760.1	886.8	3383.1	4327.2	10832.4	12461.4	7377.0
72.5°	720.9	715.0	727.0	699.9	630.5	591.3	1156.9	1401.2	4865.7	5561.1	3039.2
75°	621.4	618.4	624.4	597.3	518.9	411.7	588.3	642.5	1372.5	1360.4	615.4
77.5°	404.2	408.8	517.4	505.3	446.5	274.5	304.7	328.8	416.3	312.3	187.1
80°	257.9	254.9	262.4	419.3	401.2	209.7	152.3	159.9	200.6	153.8	90.5
82.5°	156.9	153.8	172.0	196.1	202.1	146.3	93.5	95.0	125.2	99.6	48.3
85°	13.6	18.1	104.1	96.5	69.4	45.3	45.3	48.3	66.3	58.8	27.1
87.5°	0.0	0.0	18.1	27.1	15.1	16.6	16.6	18.1	25.6	25.6	13.6
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°	7821.9	7821.9	7821.9	7821.9	7821.9	7821.9	7821.9	7821.9	7821.9	7821.9	7821.9
2.5°	7828.0	7671.1	7354.4	7049.7	6791.8	6542.9	6259.3	5978.9	5847.6	5794.8	5740.5
5°	7841.6	7518.8	6865.7	6208.1	5526.3	4912.4	4389.1	3852.1	3583.7	3466.0	3411.7
7.5°	7859.7	7368.0	6312.2	5208.1	4110.1	3277.5	2550.5	2082.9	1880.8	1849.1	1770.7
10°	7862.6	7185.4	5669.6	4104.0	2755.6	1975.8	1520.4	1279.0	1190.1	1175.0	1149.3
12.5°	7868.7	6969.7	4956.2	3039.2	1837.1	1321.2	1099.5	1019.6	995.5	994.0	994.0
15°	7886.8	6743.5	4215.6	2190.0	1319.7	1046.8	965.3	933.6	924.6	929.1	927.6
17.5°	7886.8	6476.6	3488.6	1632.0	1066.3	941.1	896.0	874.8	871.7	876.3	877.8
20°	7829.5	6152.2	2822.0	1270.0	945.7	873.3	832.5	813.0	805.4	808.4	810.0
22.5°	7692.3	5754.1	2279.0	1051.3	865.8	811.5	767.7	737.5	725.5	727.0	727.0
25°	7478.0	5282.0	1782.8	909.5	800.9	745.1	693.8	659.2	651.6	650.0	653.1
27.5°	7203.6	4760.1	1419.3	800.9	724.0	671.2	619.9	591.3	585.2	586.7	588.3
30°	6933.5	4218.7	1119.2	708.9	638.0	588.3	549.1	535.5	535.5	539.9	541.5
32.5°	6686.2	3698.3	885.3	629.0	561.1	515.8	493.2	491.7	499.2	502.3	503.8
35°	6473.5	3217.2	733.0	567.1	500.7	461.5	454.0	460.0	469.0	475.1	476.6
37.5°	6322.7	2787.3	641.0	515.8	454.0	422.4	420.8	432.9	444.9	458.5	461.5
40°	6259.3	2423.8	577.7	470.6	416.3	392.2	387.6	404.2	426.8	446.5	449.5
42.5°	6206.5	2126.6	523.3	426.8	386.1	351.5	349.9	371.0	398.1	417.8	422.4
45°	6161.3	1888.3	473.6	380.1	346.9	301.6	306.2	333.3	354.5	375.6	380.1
47.5°	6067.8	1692.2	419.3	330.3	286.5	257.9	267.0	291.1	307.7	339.4	343.9
50°	5900.4	1532.4	363.5	270.0	233.8	223.2	236.8	253.4	274.5	301.6	304.7
52.5°	5787.2	1411.8	315.2	226.3	193.0	196.1	209.7	215.7	227.8	238.3	235.3
55°	5722.4	1345.3	276.0	196.1	164.4	173.5	176.4	168.9	162.9	152.3	147.8
57.5°	5714.9	1285.1	245.8	170.5	144.8	149.3	138.8	113.1	92.0	79.9	76.9
60°	5702.8	1211.1	221.7	143.3	128.2	122.1	99.6	61.9	43.8	40.7	40.7
62.5°	5571.6	1096.5	203.6	120.6	108.6	92.0	57.3	28.7	24.1	25.6	25.6
65°	5153.8	936.7	185.6	98.0	86.0	66.3	28.7	16.6	9.0	10.5	10.5
67.5°	4381.5	746.6	165.9	75.5	64.8	42.2	16.6	7.5	0.0	0.0	0.0
70°	2933.6	463.1	140.3	52.8	42.2	25.6	12.1	1.5	0.0	0.0	0.0
72.5°	1125.2	250.4	113.1	31.7	27.1	18.1	7.5	0.0	0.0	0.0	0.0
75°	253.4	164.4	78.4	22.6	19.6	12.1	3.0	0.0	0.0	0.0	0.0
77.5°	96.5	119.1	45.3	15.1	13.6	7.5	0.0	0.0	0.0	0.0	0.0
80°	46.8	70.9	21.1	9.0	7.5	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.1	27.1	9.0	4.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.6	13.6	4.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	4.6	1.5	1.5	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)