

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: P457885

Luminaire Tested: **GALN-SA9B-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38643 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

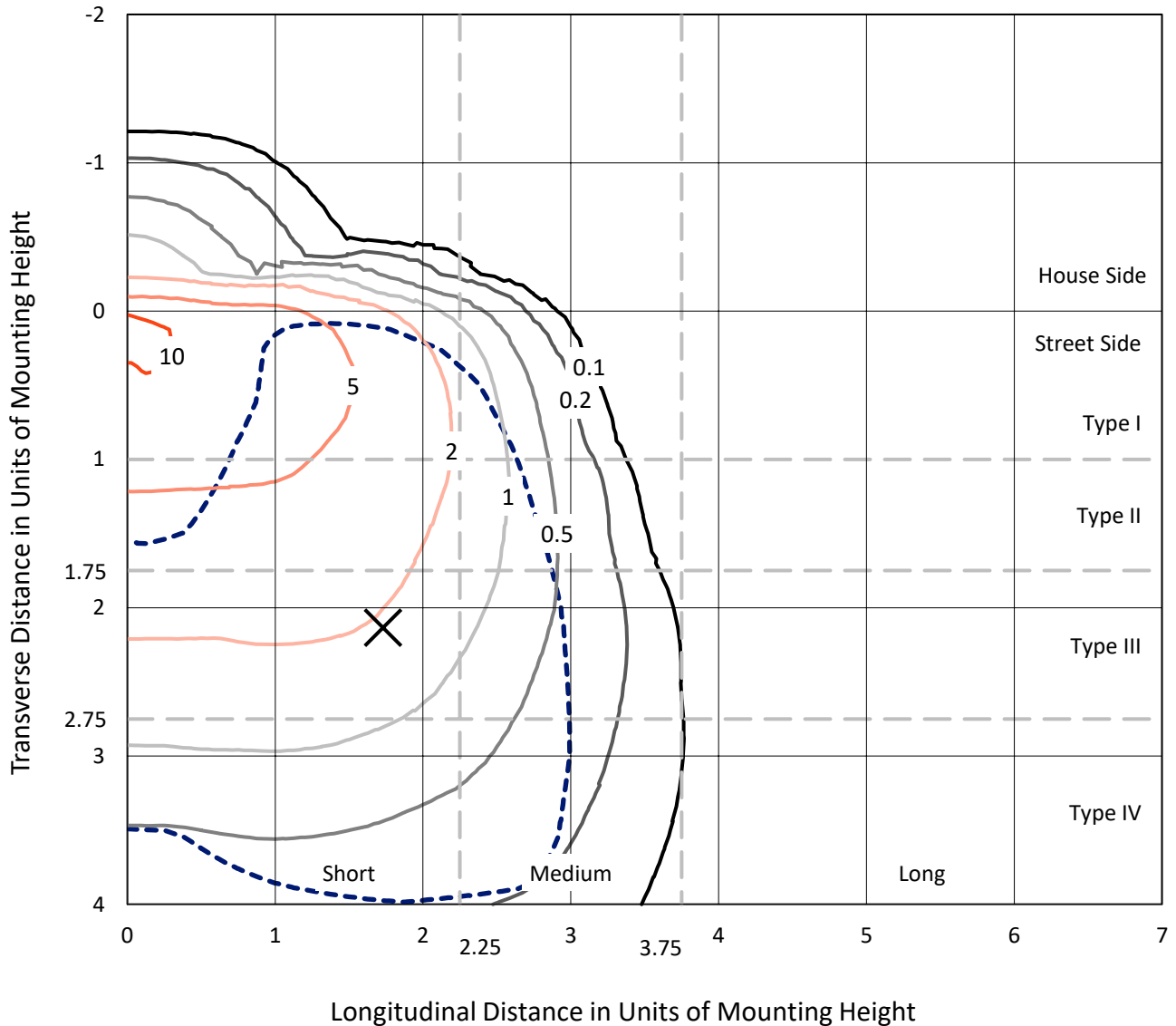
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

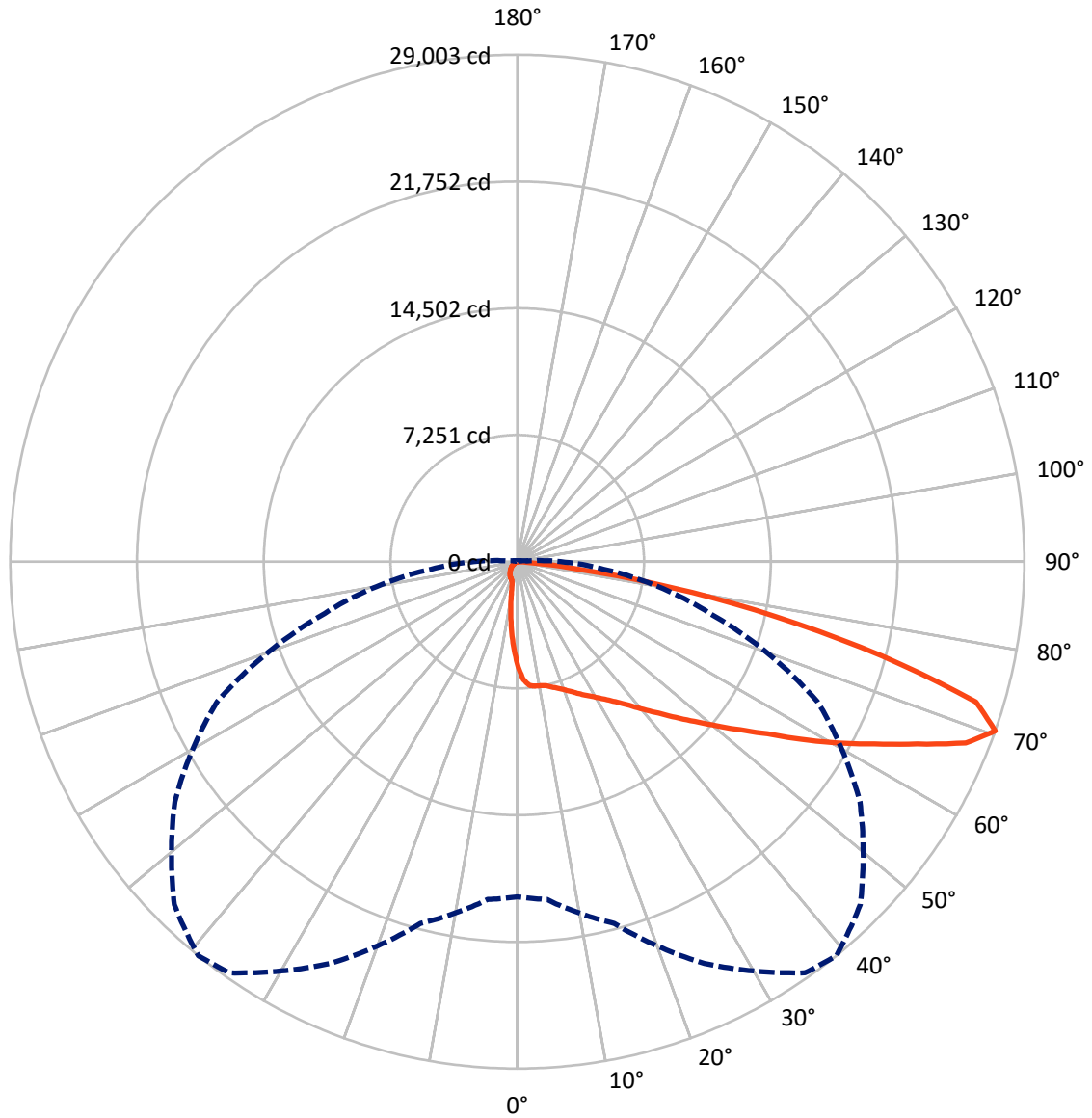
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2519.7	0.0	2519.7
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	36123.3	0.0	36123.3
	% Fixture	93.5	0.0	93.5
Total	Lumens	38643.0	0.0	38643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.3	1.3
10°-20°	1336.5	3.5
20°-30°	2239.0	5.8
30°-40°	3472.4	9.0
40°-50°	5502.7	14.2
50°-60°	8066.1	20.9
60°-70°	10338.8	26.8
70°-80°	6496.6	16.8
80°-90°	676.8	1.8
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°	38643.0	100.0
0°-180°	38643.0	100.0

Coefficient of Utilization



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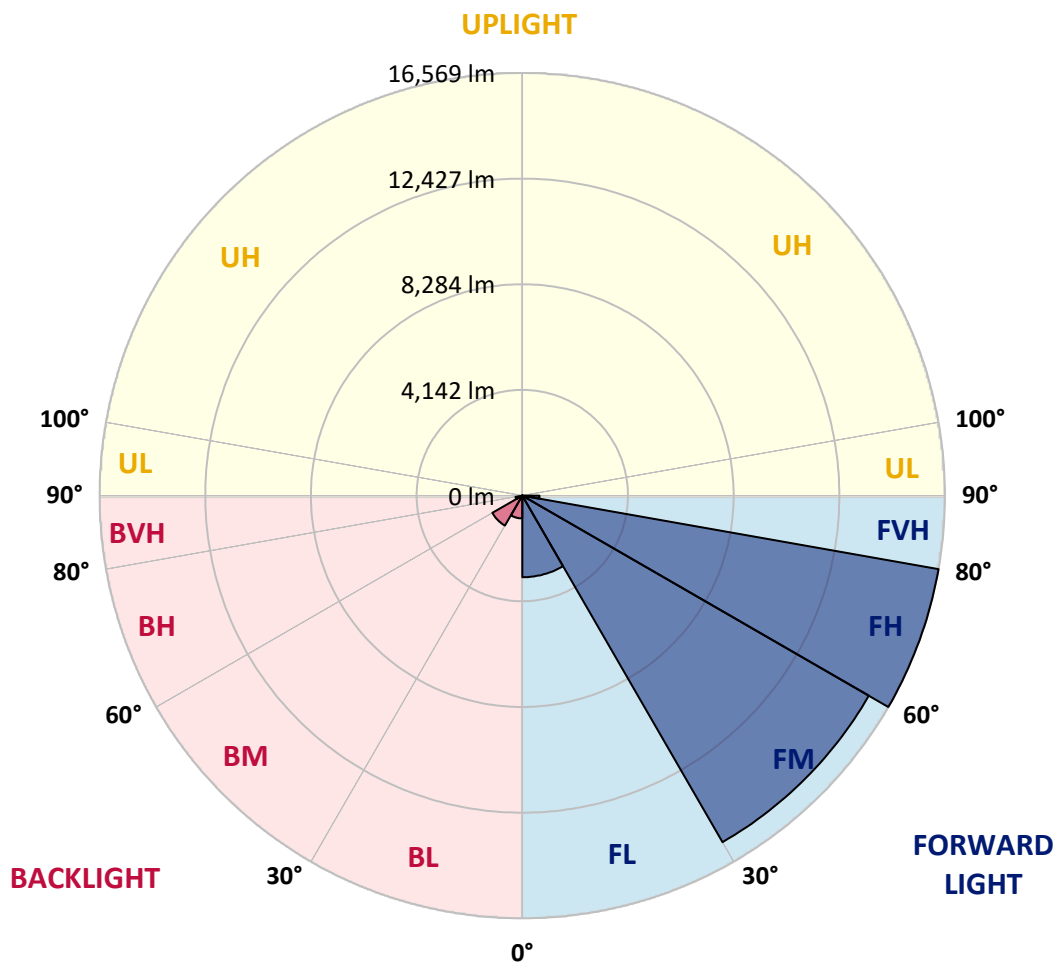
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3197.5	8.3			
FM	(30°-60°)	15685.1	40.6			
FH	(60°-80°)	16568.9	42.9			G5
FVH	(80°-90°)	671.8	1.7			G4/750
BL	(0°-30°)	892.2	2.3	B2/1000		
BM	(30°-60°)	1356.0	3.5	B2/2500		
BH	(60°-80°)	266.5	0.7	B1/500		G1/500
BVH	(80°-90°)	5.0	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6
2.5°	6967.1	6943.7	6912.5	6876.2	6772.3	6754.1	6691.8	6559.4	6401.0	6271.1	6092.0
5°	7296.8	7309.8	7286.5	7221.5	7146.2	7102.1	7024.2	6819.0	6613.9	6351.6	6058.2
7.5°	7372.1	7398.1	7369.6	7307.2	7234.5	7187.8	7125.5	6948.9	6710.0	6411.4	6008.9
10°	7364.4	7395.5	7377.3	7320.2	7260.5	7216.3	7148.8	7008.6	6816.4	6502.2	6024.4
12.5°	7351.4	7392.9	7390.3	7361.8	7312.4	7278.7	7237.1	7112.5	6933.3	6634.7	6110.1
15°	7315.0	7367.0	7413.7	7437.1	7439.7	7439.7	7387.7	7255.3	7083.9	6808.7	6221.8
17.5°	7330.6	7390.3	7507.2	7574.7	7621.4	7616.2	7561.7	7418.9	7229.3	6987.8	6338.6
20°	7426.7	7507.2	7670.8	7805.8	7852.5	7837.0	7764.3	7598.1	7382.5	7141.0	6452.9
22.5°	7663.0	7735.7	7940.8	8099.2	8133.0	8091.4	7987.6	7761.7	7566.9	7307.2	6590.5
25°	8016.1	8101.8	8291.4	8410.8	8410.8	8387.5	8242.1	7977.2	7774.6	7538.3	6769.7
27.5°	8444.6	8517.3	8704.3	8810.7	8748.4	8680.9	8535.5	8216.1	8021.3	7829.2	6985.2
30°	8878.3	8925.0	9122.4	9169.1	9104.2	9018.5	8862.7	8543.3	8371.9	8223.9	7296.8
32.5°	9288.5	9389.8	9553.4	9543.0	9454.7	9413.2	9270.4	8930.2	8834.1	8818.5	7733.1
35°	9698.8	9776.7	9922.1	9958.5	9880.6	9872.8	9768.9	9517.1	9519.7	9620.9	8413.4
37.5°	10052.0	10122.1	10293.5	10374.0	10389.6	10428.5	10387.0	10220.8	10457.1	10734.9	9314.5
40°	10348.0	10446.7	10664.8	10805.0	10966.0	11108.9	11116.6	11153.0	11628.2	12106.0	10490.8
42.5°	10579.1	10716.8	11033.6	11293.2	11662.0	11843.7	11989.2	12189.1	12988.9	13703.0	11877.5
45°	10880.3	11038.7	11433.5	11841.1	12417.6	12716.2	12918.8	13453.7	14588.5	15562.3	13300.5
47.5°	11378.9	11462.0	11864.5	12459.2	13217.4	13643.3	14038.0	14848.2	16304.9	17177.4	14484.6
50°	12020.3	12074.8	12378.7	13204.4	14186.0	14746.9	15466.2	16419.2	18086.3	18517.4	15154.6
52.5°	12729.2	12747.4	12975.9	14025.0	15271.4	15977.7	16782.7	17959.1	19537.9	19473.0	15598.6
55°	13552.4	13526.4	13721.2	14915.7	16556.8	17364.4	18301.8	19535.3	20797.3	20150.7	15853.1
57.5°	14495.0	14424.9	14614.5	16097.2	18203.2	19169.1	20122.1	20896.0	21773.7	20719.4	15975.2
60°	15481.8	15341.5	15567.5	17424.1	20142.9	21059.6	21851.6	22059.3	22802.0	21171.2	15764.8
62.5°	16268.6	16271.2	16691.9	18836.8	22137.2	22939.6	23360.3	23547.3	23687.5	21072.6	14658.6
65°	17496.8	17538.4	18210.9	20797.3	24445.7	25141.7	25429.9	24822.3	23726.4	19846.9	12996.7
67.5°	18764.1	18896.5	20127.3	23497.9	27112.6	27673.5	27302.1	25068.9	22667.0	17050.2	9854.6
70°	19176.9	19395.1	21423.1	25357.2	28712.2	29003.0	27746.2	23918.6	18948.4	11399.7	4959.8
72.5°	17572.1	17925.3	20677.9	24679.4	27691.7	27439.8	24824.8	20059.8	12046.3	4328.8	1513.9
75°	12391.6	12547.5	17185.2	20472.7	22272.3	21558.1	18883.5	12931.8	4954.6	1215.3	519.3
77.5°	6398.4	6323.1	10220.8	13583.6	15884.3	15144.2	12365.7	6694.4	1877.4	506.4	322.0
80°	3308.2	3362.8	4422.3	7117.7	9696.2	8922.4	6593.1	3103.1	999.7	280.4	246.7
82.5°	1854.1	1739.8	2542.2	3108.3	4533.9	3554.9	2529.2	2196.8	436.3	168.8	233.7
85°	337.6	353.2	1394.5	1680.1	1573.6	999.7	815.4	1467.2	127.2	93.5	163.6
87.5°	5.2	5.2	270.1	483.0	306.4	140.2	257.1	210.3	26.0	36.4	28.6
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°	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6	6029.6
2.5°	6001.1	5902.4	5718.0	5536.3	5305.1	5115.6	4988.3	4855.9	4720.9	4731.3	4762.4
5°	5897.2	5725.8	5362.3	4978.0	4609.2	4276.8	3949.6	3656.2	3536.8	3427.7	3432.9
7.5°	5793.3	5551.8	5019.5	4417.1	3858.8	3292.7	2882.4	2544.8	2365.6	2230.6	2191.6
10°	5746.6	5427.2	4705.3	3876.9	3084.9	2466.9	1939.8	1664.5	1451.6	1384.1	1402.2
12.5°	5767.4	5364.9	4422.3	3388.7	2446.1	1719.0	1350.3	1210.1	1163.3	1155.5	1150.4
15°	5806.3	5320.7	4144.4	2848.6	1796.9	1277.6	1134.8	1108.8	1103.6	1098.4	1101.0
17.5°	5858.2	5281.8	3848.4	2342.3	1378.9	1116.6	1075.1	1062.1	1059.5	1059.5	1059.5
20°	5910.2	5237.6	3518.6	1890.4	1150.4	1054.3	1028.3	1020.5	1017.9	1017.9	1015.3
22.5°	5969.9	5198.7	3183.6	1485.3	1059.5	1010.1	986.8	981.6	979.0	976.4	976.4
25°	6055.6	5149.3	2827.9	1215.3	1002.3	968.6	945.2	940.0	937.4	927.0	929.6
27.5°	6169.9	5113.0	2461.7	1049.1	950.4	916.6	901.1	893.3	888.1	880.3	882.9
30°	6325.7	5081.8	2072.2	958.2	890.7	862.1	846.5	841.3	836.2	828.4	828.4
32.5°	6595.7	5094.8	1661.9	885.5	836.2	802.4	786.8	781.6	776.4	768.6	768.6
35°	7000.8	5170.1	1329.5	823.2	771.2	737.5	721.9	721.9	714.1	703.7	701.1
37.5°	7663.0	5362.3	1067.3	763.4	708.9	677.7	659.6	654.4	646.6	631.0	628.4
40°	8444.6	5660.9	898.5	703.7	651.8	620.6	605.0	589.5	568.7	553.1	550.5
42.5°	9426.2	5967.3	779.0	644.0	597.3	568.7	550.5	524.5	493.4	472.6	470.0
45°	10449.3	6247.8	698.5	589.5	545.3	521.9	501.2	459.6	420.7	394.7	392.1
47.5°	11212.7	6299.7	633.6	537.5	501.2	477.8	449.2	397.3	345.4	322.0	314.2
50°	11573.7	6047.8	566.1	485.6	457.0	431.1	394.7	335.0	277.9	249.3	244.1
52.5°	11700.9	5611.6	511.6	438.8	412.9	381.7	337.6	270.1	218.1	189.6	187.0
55°	11649.0	5061.0	462.2	394.7	360.9	324.6	280.4	215.5	161.0	137.6	132.4
57.5°	11376.3	4359.9	412.9	350.6	309.0	272.7	223.3	161.0	109.1	88.3	85.7
60°	10641.4	3404.3	363.5	301.2	262.3	223.3	176.6	114.3	67.5	49.3	49.3
62.5°	9400.2	2526.6	316.8	251.9	220.7	179.2	124.6	72.7	36.4	26.0	23.4
65°	7855.1	1864.5	264.9	212.9	184.4	140.2	88.3	44.1	18.2	7.8	5.2
67.5°	5481.7	1150.4	220.7	174.0	150.6	101.3	54.5	18.2	7.8	0.0	0.0
70°	2490.3	547.9	168.8	132.4	114.3	72.7	28.6	10.4	5.2	0.0	0.0
72.5°	773.8	288.2	119.5	96.1	77.9	46.7	15.6	7.8	5.2	0.0	0.0
75°	358.4	184.4	75.3	51.9	44.1	23.4	10.4	5.2	2.6	0.0	0.0
77.5°	267.5	142.8	44.1	28.6	23.4	15.6	7.8	5.2	2.6	0.0	0.0
80°	233.7	72.7	26.0	18.2	13.0	10.4	5.2	2.6	0.0	0.0	0.0
82.5°	210.3	36.4	15.6	10.4	7.8	5.2	2.6	2.6	0.0	0.0	0.0
85°	114.3	20.8	10.4	7.8	5.2	2.6	2.6	0.0	0.0	0.0	0.0
87.5°	20.8	10.4	7.8	5.2	5.2	2.6	2.6	2.6	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)