

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: P458026

Luminaire Tested: **GALN-SA9B-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33548 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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



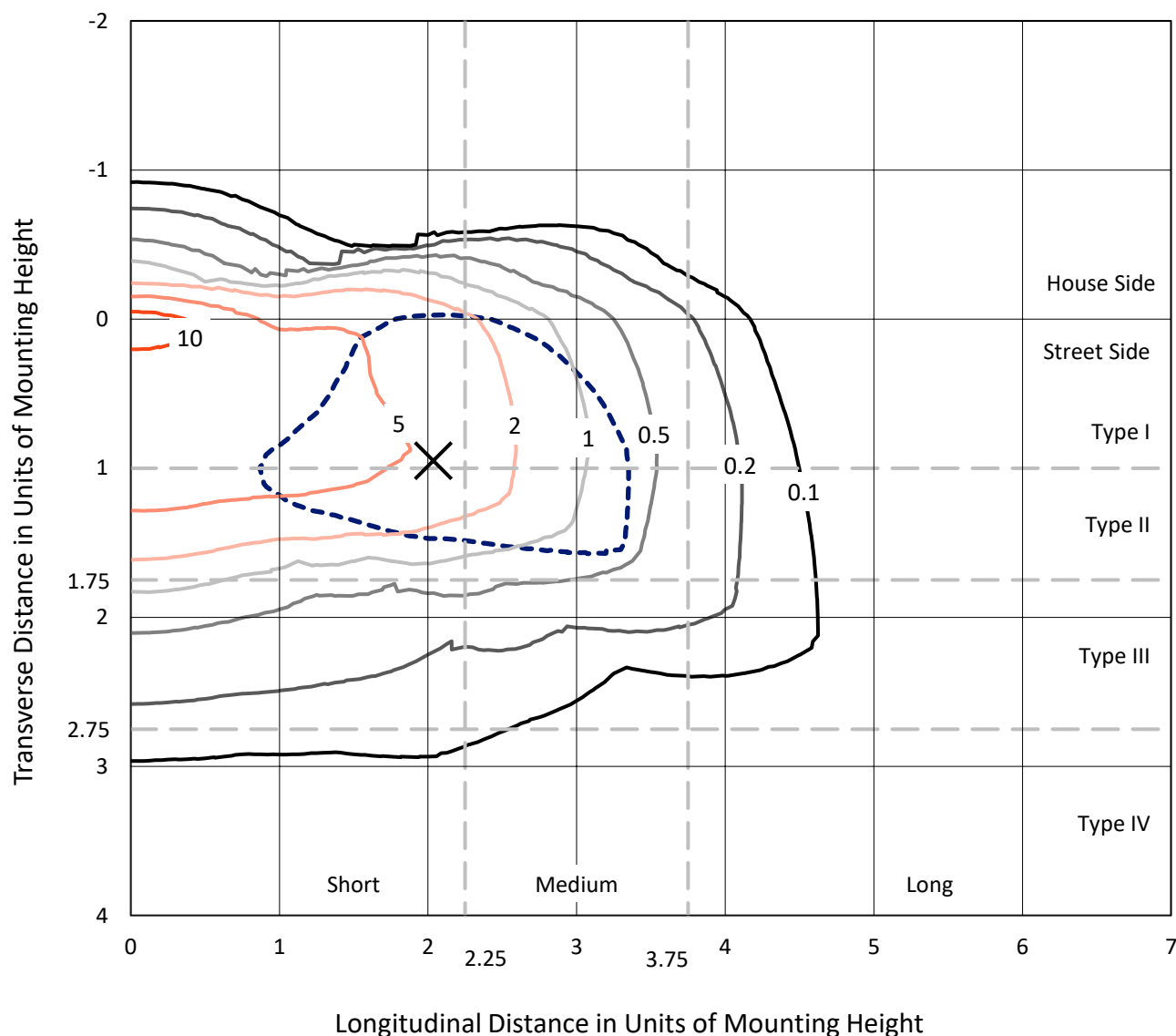
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

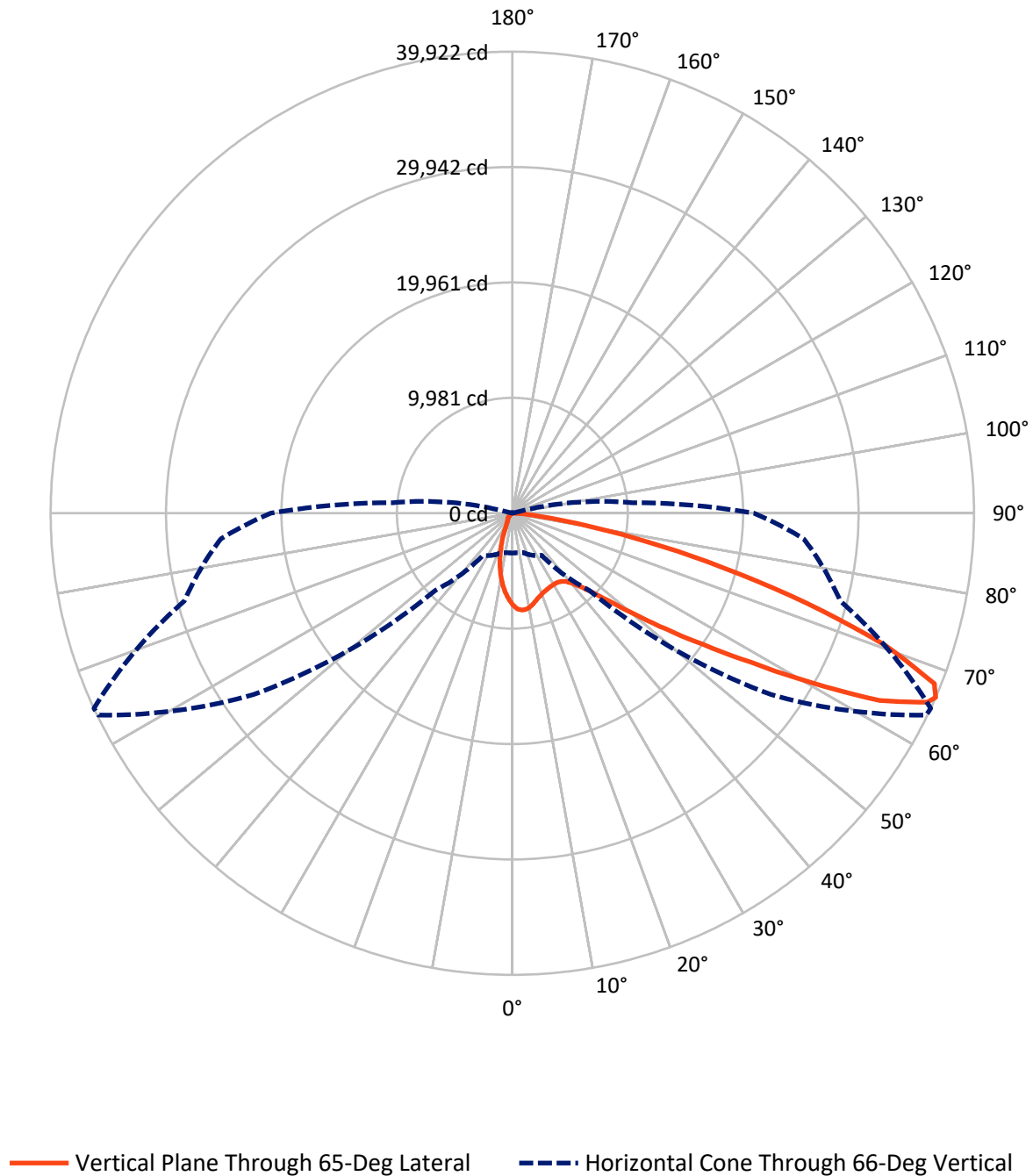
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3469.3	0.0	3469.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	30078.7	0.0	30078.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	33548.0	0.0	33548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.6	1.9
10°-20°	1417.6	4.2
20°-30°	2030.8	6.1
30°-40°	2966.1	8.8
40°-50°	4973.7	14.8
50°-60°	8300.2	24.7
60°-70°	8810.4	26.3
70°-80°	3990.2	11.9
80°-90°	408.3	1.2
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°	33548.0	100.0
0°-180°	33548.0	100.0

Coefficient of Utilization



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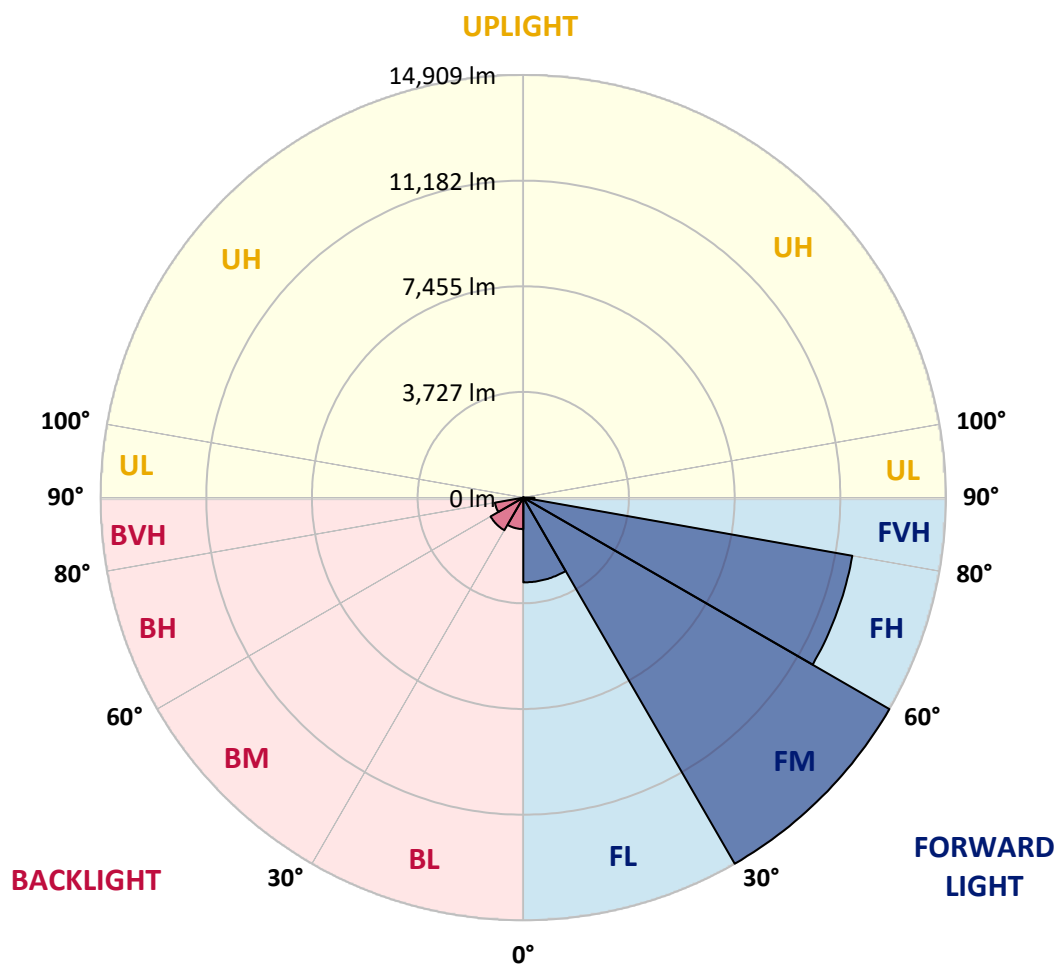
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2989.2	8.9			
FM	(30°-60°)	14909.5	44.4			
FH	(60°-80°)	11784.6	35.1			G4/12000
FVH	(80°-90°)	395.3	1.2			G3/500
BL	(0°-30°)	1109.8	3.3	B3/2500		
BM	(30°-60°)	1330.5	4.0	B2/2500		
BH	(60°-80°)	1016.0	3.0	B3/2500		G3/2500
BVH	(80°-90°)	13.0	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7955.5	7955.5	7955.5	7955.5	7955.5	7955.5	7955.5	7955.5	7955.5	7955.5	7955.5
2.5°	8383.7	8392.8	8404.1	8420.0	8431.3	8397.3	8349.7	8295.3	8284.0	8168.5	8028.0
5°	7935.1	7948.7	8048.4	8102.7	8225.1	8336.1	8406.4	8415.4	8410.9	8302.1	8077.8
7.5°	7296.1	7334.6	7432.1	7527.2	7756.1	7966.8	8216.0	8390.5	8401.8	8372.4	8093.7
10°	6777.2	6802.1	6852.0	7040.1	7230.4	7552.1	7901.1	8229.6	8256.8	8374.7	8080.1
12.5°	6371.6	6407.9	6469.1	6614.1	6842.9	7146.6	7543.1	7984.9	8041.6	8331.6	8041.6
15°	6088.4	6106.5	6167.7	6310.4	6532.5	6813.5	7214.5	7728.9	7778.7	8275.0	8034.8
17.5°	5954.7	5975.1	6018.1	6131.4	6315.0	6575.6	6967.5	7522.7	7586.1	8238.7	8059.7
20°	5991.0	6009.1	6011.4	6070.3	6194.9	6414.7	6786.3	7330.1	7411.7	8216.0	8100.5
22.5°	6197.2	6199.4	6172.2	6145.0	6188.1	6346.7	6675.3	7207.7	7291.6	8211.5	8148.1
25°	6505.3	6512.1	6466.8	6371.6	6285.5	6367.1	6650.3	7128.4	7203.2	8200.2	8177.5
27.5°	6931.3	6929.0	6915.4	6756.8	6512.1	6457.7	6670.7	7085.4	7148.8	8168.5	8188.9
30°	7527.2	7509.1	7479.6	7300.6	6926.8	6677.5	6756.8	7058.2	7117.1	8123.1	8159.4
32.5°	8114.1	8182.1	8177.5	8007.6	7540.8	7069.5	6935.8	7094.4	7137.5	8093.7	8116.3
35°	8798.4	8796.1	8970.6	8907.1	8361.1	7570.3	7241.7	7214.5	7248.5	8114.1	8096.0
37.5°	9432.8	9491.7	9763.6	9829.3	9330.9	8277.2	7674.5	7472.8	7484.2	8252.3	8145.8
40°	10223.6	10336.9	10742.5	10962.3	10522.7	9326.3	8313.5	7946.4	7948.7	8592.2	8333.9
42.5°	11243.2	11422.2	11800.6	12167.7	11932.1	10568.0	9271.9	8696.4	8691.9	9190.4	8764.4
45°	12482.7	12607.3	13037.8	13620.1	13470.6	12301.4	10667.7	9858.8	9799.9	10171.5	9528.0
47.5°	13552.2	13722.1	14159.4	14823.3	15503.1	14417.7	12335.4	11456.2	11417.7	11732.7	10837.7
50°	14018.9	14168.5	14628.5	15559.7	17207.0	17195.7	14818.8	13787.8	13722.1	13892.0	12863.3
52.5°	13506.8	13647.3	14111.8	15272.0	18009.1	20580.9	18417.0	16713.1	16633.7	16416.2	15283.3
55°	11753.1	11868.6	12555.2	13887.5	17701.0	22837.7	23374.7	20327.1	20019.0	19173.8	18022.7
57.5°	9358.0	9299.1	9725.1	11272.7	15892.8	23594.5	28463.9	24829.4	24278.8	21557.5	20340.7
60°	6484.9	6666.2	6838.4	7858.0	11950.2	22282.6	31629.3	30489.5	29764.5	23902.7	22561.3
62.5°	4767.4	4887.5	5000.8	5472.1	7513.6	17791.6	32188.9	36303.8	35660.3	26392.8	24679.9
65°	3770.4	3779.5	3824.8	4289.3	4950.9	11569.5	29499.4	39582.5	39417.1	28790.1	25538.6
66°	3435.1	3437.3	3507.6	4006.1	4443.4	9421.5	27344.5	39831.7	39922.4	29365.7	25287.1
67.5°	3002.3	2993.2	3095.2	3600.5	4046.8	6793.1	23488.0	38821.1	39358.2	29807.5	24383.0
70°	2327.0	2315.7	2440.3	3020.4	3727.4	4531.7	15611.8	33333.2	34198.8	28903.4	21573.3
72.5°	1549.9	1558.9	1771.9	2383.7	3557.4	3990.2	9392.0	25357.3	26580.9	23868.7	16971.4
75°	904.1	919.9	1162.4	1771.9	3088.4	3804.4	5315.7	18081.6	18863.4	16481.9	10572.5
77.5°	473.6	480.4	650.3	1169.2	2367.8	3532.5	3541.6	11551.4	11918.5	8009.8	4185.1
80°	251.5	244.7	348.9	704.7	1629.2	3102.0	2873.1	6115.6	6358.0	2379.2	1058.2
82.5°	95.2	104.2	185.8	462.2	963.0	2227.3	2474.3	2703.2	2619.3	523.4	444.1
85°	18.1	22.7	79.3	274.2	484.9	931.3	1824.0	1325.5	1228.1	197.1	256.0
87.5°	2.3	4.5	22.7	65.7	70.2	315.0	539.3	367.1	317.2	72.5	106.5
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°	7955.5	7955.5	7955.5	7955.5	7955.5	7955.5	7955.5	7955.5	7955.5	7955.5	7955.5
2.5°	7960.0	7898.8	7694.9	7493.2	7287.0	7101.2	6974.3	6768.2	6716.0	6641.3	6598.2
5°	7944.1	7801.4	7409.4	6981.1	6582.4	6151.8	5823.3	5506.1	5336.1	5250.0	5218.3
7.5°	7898.8	7672.2	7060.4	6389.8	5750.8	5107.3	4547.6	4121.6	3847.4	3659.4	3532.5
10°	7808.2	7495.5	6654.9	5732.7	4767.4	3917.7	3208.5	2669.2	2252.3	2120.9	2125.4
12.5°	7715.3	7298.4	6201.7	5003.0	3806.7	2734.9	1982.6	1556.7	1357.3	1291.5	1278.0
15°	7629.2	7110.3	5757.6	4296.1	2834.6	1771.9	1278.0	1128.4	1074.0	1062.7	1060.4
17.5°	7583.9	6935.8	5284.0	3487.2	1978.1	1203.2	1024.2	983.4	967.5	956.2	951.7
20°	7545.3	6784.0	4830.8	2730.4	1352.7	985.7	917.7	879.2	852.0	840.6	833.8
22.5°	7518.2	6627.7	4361.8	2114.1	1035.5	874.6	813.4	763.6	725.1	711.5	702.4
25°	7477.4	6455.5	3888.2	1545.3	872.4	777.2	707.0	648.0	598.2	573.3	568.7
27.5°	7418.5	6260.6	3369.3	1144.3	779.5	691.1	605.0	532.5	482.6	455.4	457.7
30°	7323.3	6056.7	2850.5	908.6	704.7	602.7	509.8	439.6	392.0	371.6	369.3
32.5°	7210.0	5809.7	2374.6	779.5	636.7	523.4	426.0	364.8	328.6	312.7	310.4
35°	7103.5	5560.4	1889.7	700.2	566.5	450.9	358.0	305.9	278.7	265.1	267.4
37.5°	7044.6	5338.4	1472.8	636.7	509.8	387.5	308.2	262.8	237.9	226.6	224.3
40°	7083.1	5157.1	1171.5	580.1	446.4	333.1	265.1	226.6	201.7	185.8	185.8
42.5°	7264.4	5077.8	944.9	525.7	387.5	287.8	231.1	194.9	167.7	151.8	154.1
45°	7817.3	5161.7	790.8	475.8	333.1	249.2	199.4	160.9	136.0	124.6	122.4
47.5°	8734.9	5476.6	684.3	423.7	285.5	213.0	167.7	133.7	108.8	99.7	97.4
50°	10339.2	6126.9	605.0	371.6	242.4	181.3	138.2	106.5	86.1	77.0	77.0
52.5°	12546.1	7545.3	548.3	312.7	203.9	154.1	113.3	86.1	68.0	61.2	58.9
55°	14852.8	9040.8	518.9	262.8	169.9	126.9	90.6	68.0	52.1	45.3	43.1
57.5°	17071.1	10214.5	484.9	213.0	136.0	97.4	70.2	52.1	36.3	31.7	29.5
60°	19198.7	11163.9	412.4	169.9	106.5	70.2	52.1	36.3	24.9	20.4	20.4
62.5°	21102.0	11716.8	324.0	136.0	81.6	49.8	34.0	27.2	18.1	13.6	13.6
65°	21324.1	10998.5	244.7	104.2	58.9	31.7	20.4	20.4	13.6	9.1	9.1
66°	20877.7	10389.0	215.3	95.2	52.1	27.2	18.1	15.9	11.3	6.8	6.8
67.5°	19880.7	9349.0	185.8	81.6	43.1	20.4	13.6	13.6	9.1	4.5	4.5
70°	17177.6	7636.0	147.3	61.2	31.7	15.9	9.1	9.1	6.8	4.5	4.5
72.5°	13092.2	5700.9	120.1	45.3	22.7	11.3	6.8	6.8	6.8	4.5	4.5
75°	7896.6	3070.3	92.9	34.0	20.4	9.1	4.5	6.8	9.1	6.8	4.5
77.5°	2909.4	1044.6	72.5	27.2	15.9	9.1	4.5	4.5	9.1	6.8	6.8
80°	713.7	271.9	52.1	22.7	15.9	9.1	4.5	4.5	9.1	9.1	9.1
82.5°	330.8	115.6	36.3	20.4	15.9	9.1	4.5	4.5	6.8	9.1	9.1
85°	190.3	54.4	29.5	22.7	15.9	9.1	4.5	4.5	6.8	9.1	9.1
87.5°	77.0	27.2	27.2	22.7	18.1	11.3	4.5	4.5	4.5	6.8	6.8
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)