

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: P458258

Luminaire Tested: **GALN-SA9C-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458258
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-SA9C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA 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: 41450 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 481
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

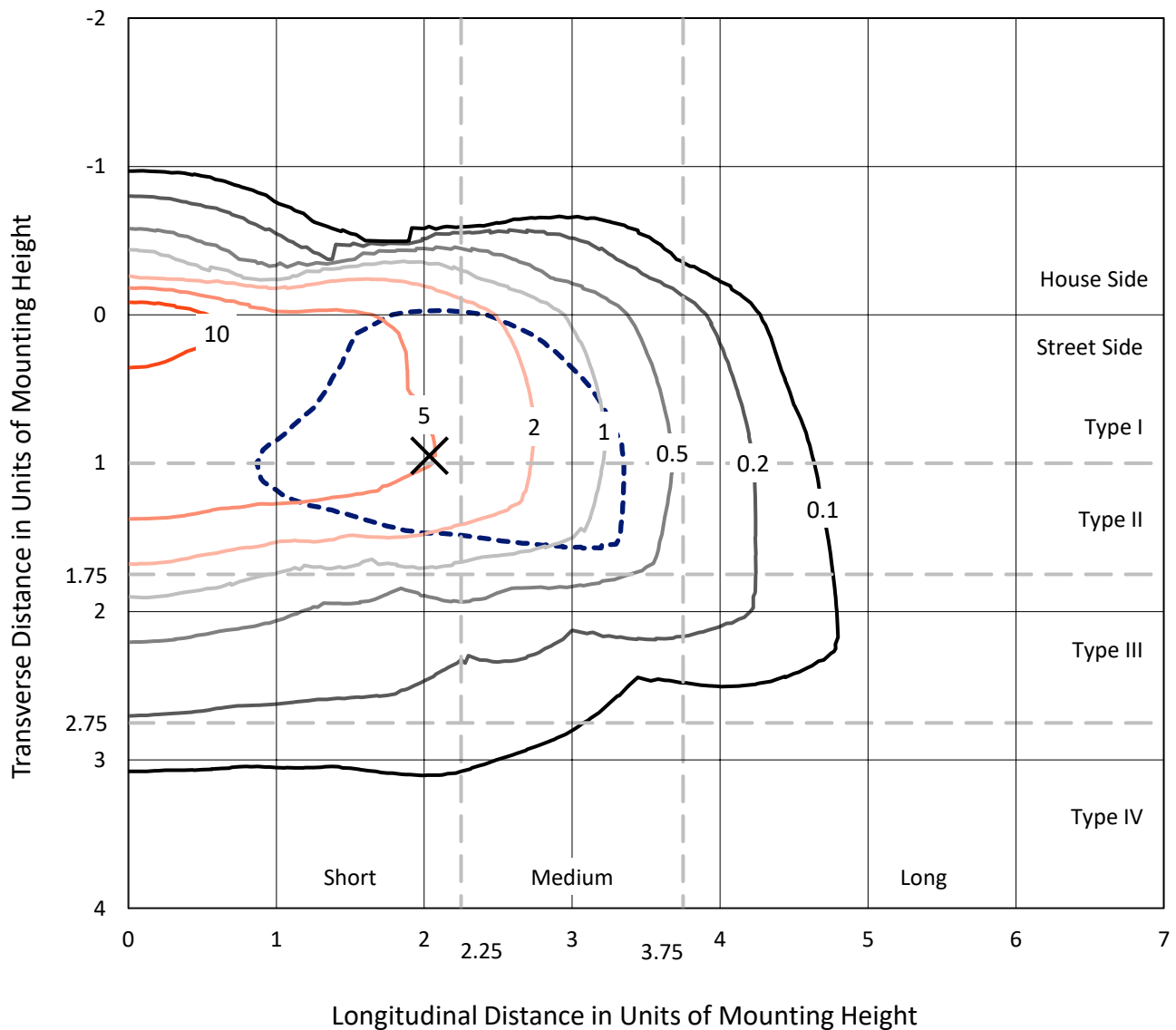


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Iso-Footcandle Lines of Horizontal Illumination

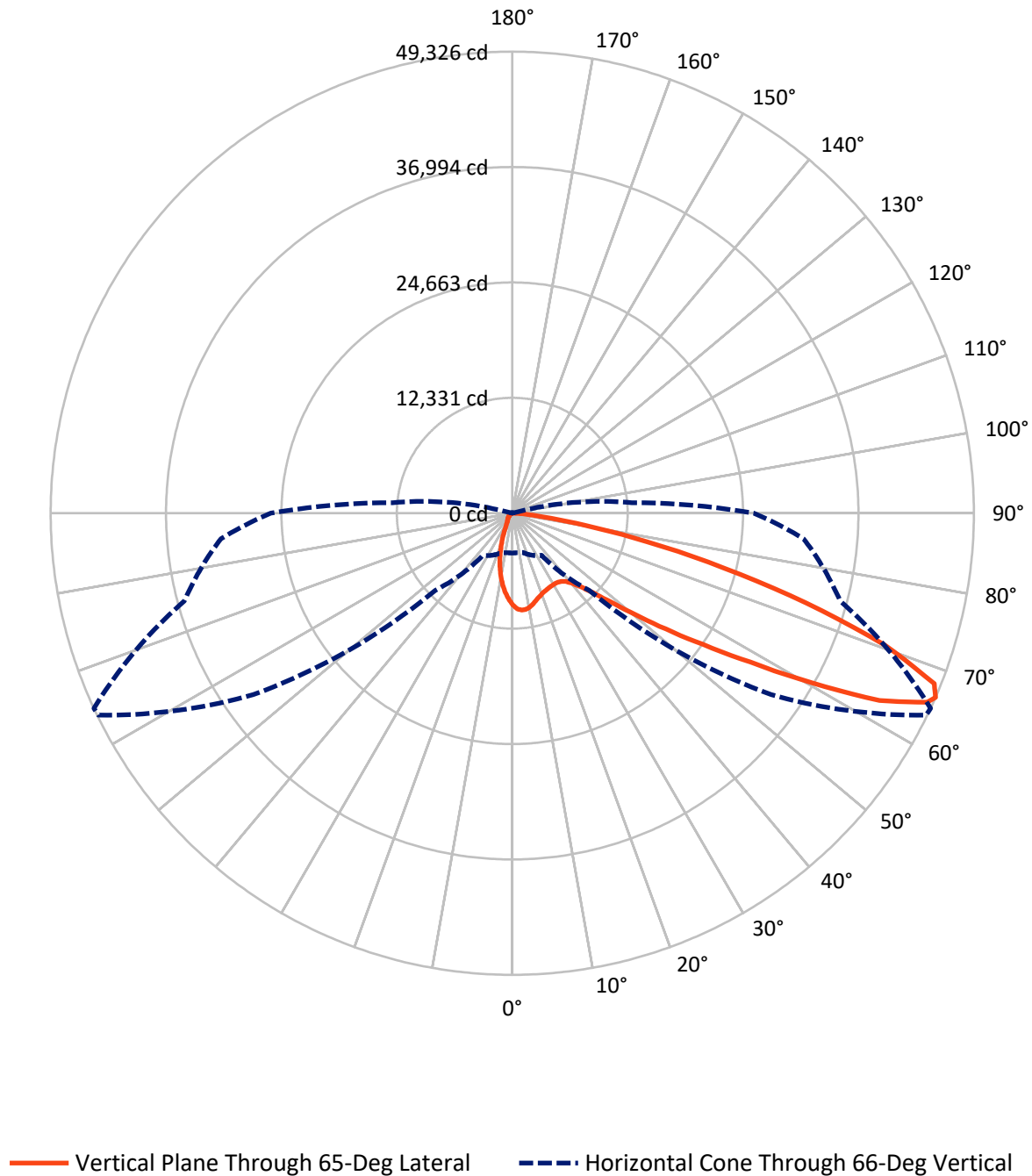
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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	4286.5	0.0	4286.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	37163.5	0.0	37163.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	41450.0	0.0	41450.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	803.9	1.9
10°-20°	1751.6	4.2
20°-30°	2509.1	6.1
30°-40°	3664.8	8.8
40°-50°	6145.2	14.8
50°-60°	10255.3	24.7
60°-70°	10885.7	26.3
70°-80°	4930.1	11.9
80°-90°	504.4	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°	41450.0	100.0
0°-180°	41450.0	100.0

Coefficient of Utilization



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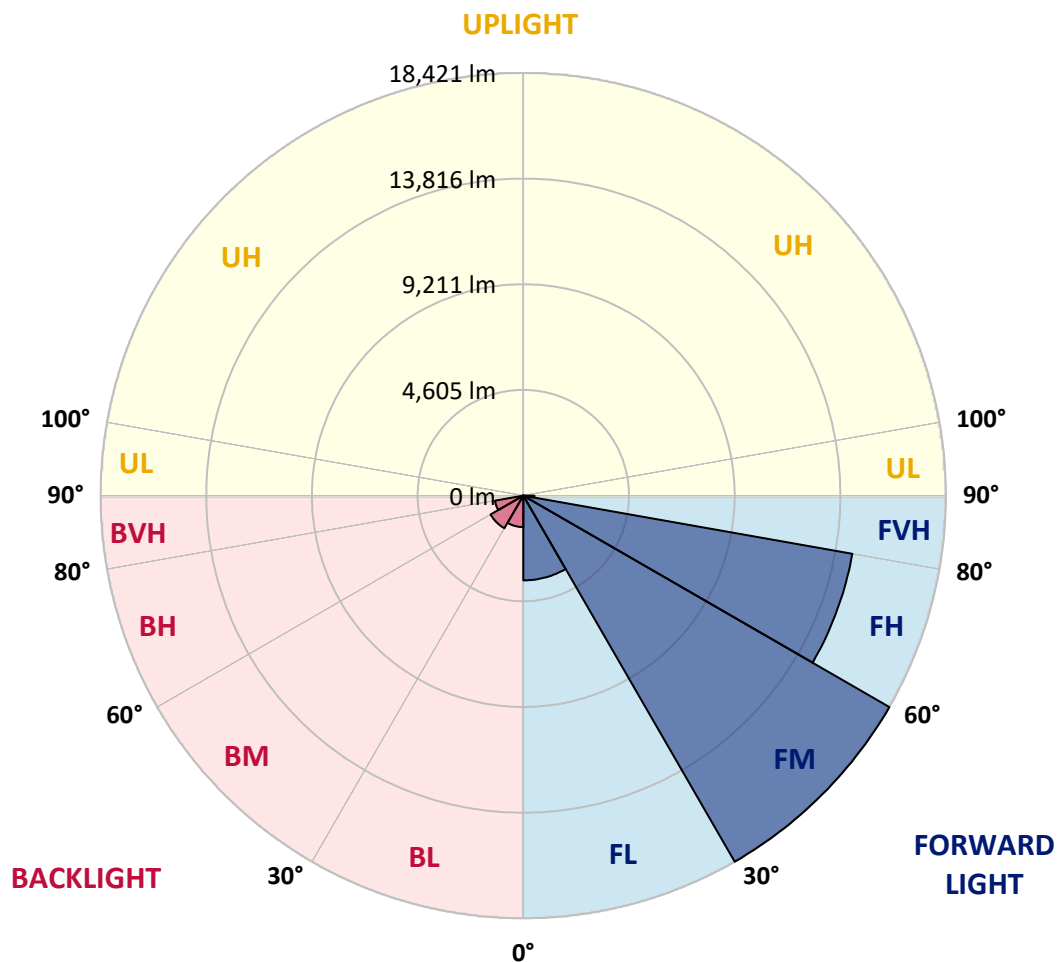
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3693.3	8.9			
FM	(30°-60°)	18421.3	44.4			
FH	(60°-80°)	14560.4	35.1			G5
FVH	(80°-90°)	488.4	1.2			G3/500
BL	(0°-30°)	1371.2	3.3	B3/2500		
BM	(30°-60°)	1643.9	4.0	B2/2500		
BH	(60°-80°)	1255.3	3.0	B3/2500		G3/2500
BVH	(80°-90°)	16.1	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-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	9829.3	9829.3	9829.3	9829.3	9829.3	9829.3	9829.3	9829.3	9829.3	9829.3	9829.3
2.5°	10358.4	10369.6	10383.6	10403.2	10417.2	10375.2	10316.5	10249.3	10235.3	10092.5	9918.9
5°	9804.1	9820.9	9944.1	10011.3	10162.5	10299.7	10386.4	10397.6	10392.0	10257.7	9980.5
7.5°	9014.6	9062.2	9182.6	9300.2	9583.0	9843.3	10151.3	10366.8	10380.8	10344.4	10000.1
10°	8373.5	8404.3	8465.9	8698.3	8933.5	9331.0	9762.1	10168.1	10201.7	10347.2	9983.3
12.5°	7872.4	7917.2	7992.8	8172.0	8454.7	8829.9	9319.8	9865.7	9935.7	10294.1	9935.7
15°	7522.5	7544.9	7620.5	7796.8	8071.2	8418.3	8913.9	9549.4	9611.0	10224.1	9927.3
17.5°	7357.3	7382.5	7435.7	7575.7	7802.4	8124.4	8608.7	9294.6	9373.0	10179.3	9958.1
20°	7402.1	7424.5	7427.3	7500.1	7654.1	7925.6	8384.7	9056.6	9157.4	10151.3	10008.5
22.5°	7656.8	7659.6	7626.1	7592.5	7645.7	7841.6	8247.6	8905.5	9009.0	10145.7	10067.3
25°	8037.6	8046.0	7990.0	7872.4	7766.0	7866.8	8216.8	8807.5	8899.9	10131.7	10103.7
27.5°	8563.9	8561.1	8544.3	8348.3	8046.0	7978.8	8242.0	8754.3	8832.7	10092.5	10117.7
30°	9300.2	9277.8	9241.4	9020.2	8558.3	8250.4	8348.3	8720.7	8793.5	10036.5	10081.3
32.5°	10025.3	10109.3	10103.7	9893.7	9317.0	8734.7	8569.5	8765.5	8818.7	10000.1	10028.1
35°	10870.8	10868.0	11083.5	11005.1	10330.4	9353.4	8947.5	8913.9	8955.9	10025.3	10002.9
37.5°	11654.6	11727.4	12063.4	12144.6	11528.7	10226.9	9482.2	9233.0	9247.0	10196.1	10064.5
40°	12631.7	12771.7	13272.8	13544.4	13001.2	11523.1	10271.7	9818.1	9820.9	10616.0	10296.9
42.5°	13891.5	14112.7	14580.2	15033.7	14742.6	13057.2	11455.9	10744.8	10739.2	11355.1	10828.8
45°	15422.9	15576.9	16108.8	16828.3	16643.5	15198.9	13180.4	12181.0	12108.2	12567.3	11772.2
47.5°	16744.3	16954.3	17494.6	18314.8	19154.7	17813.7	15240.9	14154.7	14107.1	14496.2	13390.4
50°	17321.0	17505.8	18074.1	19224.7	21260.0	21246.0	18309.3	17035.4	16954.3	17164.2	15893.2
52.5°	16688.3	16861.9	17435.8	18869.2	22251.1	25428.6	22755.0	20649.7	20551.7	20283.0	18883.2
55°	14521.4	14664.2	15512.5	17158.6	21870.3	28217.0	28880.5	25115.0	24734.3	23690.0	22267.9
57.5°	11562.3	11489.5	12015.8	13927.9	19636.3	29152.0	35168.3	30677.8	29997.5	26635.2	25131.8
60°	8012.4	8236.4	8449.1	9708.9	14765.0	27531.1	39079.3	37671.1	36775.3	29532.8	27875.4
62.5°	5890.3	6038.7	6178.7	6761.0	9283.4	21982.3	39770.8	44854.9	44059.8	32609.5	30493.0
65°	4658.5	4669.7	4725.7	5299.6	6117.1	14294.7	36447.7	48905.9	48701.5	35571.5	31554.1
66°	4244.2	4247.0	4333.7	4949.7	5490.0	11640.7	33785.3	49213.8	49325.8	36282.6	31243.3
67.5°	3709.4	3698.2	3824.2	4448.5	5000.0	8393.1	29020.4	47965.2	48628.7	36828.5	30126.3
70°	2875.2	2861.2	3015.1	3731.8	4605.3	5599.2	19289.1	41184.6	42254.1	35711.4	26654.8
72.5°	1914.9	1926.1	2189.3	2945.2	4395.3	4930.1	11604.3	31330.1	32841.9	29490.8	20968.9
75°	1117.0	1136.6	1436.2	2189.3	3815.8	4700.5	6567.8	22340.6	23306.5	20364.1	13062.8
77.5°	585.1	593.5	803.5	1444.6	2925.6	4364.5	4375.7	14272.3	14725.8	9896.5	5170.8
80°	310.8	302.4	431.1	870.7	2012.9	3832.6	3549.9	7556.1	7855.6	2939.6	1307.4
82.5°	117.6	128.8	229.6	571.1	1189.8	2752.0	3057.1	3339.9	3236.3	646.7	548.7
85°	22.4	28.0	98.0	338.7	599.1	1150.6	2253.7	1637.8	1517.4	243.6	316.4
87.5°	2.8	5.6	28.0	81.2	86.8	389.1	666.3	453.5	391.9	89.6	131.6
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°	9829.3	9829.3	9829.3	9829.3	9829.3	9829.3	9829.3	9829.3	9829.3	9829.3	9829.3
2.5°	9834.9	9759.3	9507.4	9258.2	9003.4	8773.9	8617.1	8362.3	8298.0	8205.6	8152.4
5°	9815.3	9639.0	9154.6	8625.5	8132.8	7600.9	7194.9	6803.0	6593.0	6486.6	6447.4
7.5°	9759.3	9479.4	8723.5	7894.8	7105.3	6310.3	5618.8	5092.4	4753.7	4521.3	4364.5
10°	9647.4	9261.0	8222.4	7082.9	5890.3	4840.5	3964.2	3297.9	2782.8	2620.4	2626.0
12.5°	9532.6	9017.4	7662.4	6181.5	4703.3	3379.1	2449.6	1923.3	1676.9	1595.8	1579.0
15°	9426.2	8785.1	7113.7	5308.0	3502.3	2189.3	1579.0	1394.2	1327.0	1313.0	1310.2
17.5°	9370.2	8569.5	6528.6	4308.6	2444.0	1486.6	1265.4	1215.0	1195.4	1181.4	1175.8
20°	9322.6	8381.9	5968.7	3373.5	1671.3	1217.8	1133.8	1086.2	1052.6	1038.6	1030.2
22.5°	9289.0	8188.8	5389.2	2612.0	1279.4	1080.6	1005.0	943.5	895.9	879.1	867.9
25°	9238.6	7976.0	4804.1	1909.3	1077.8	960.3	873.5	800.7	739.1	708.3	702.7
27.5°	9165.8	7735.2	4163.0	1413.8	963.1	853.9	747.5	657.9	596.3	562.7	565.5
30°	9048.2	7483.3	3521.9	1122.6	870.7	744.7	629.9	543.1	484.3	459.1	456.3
32.5°	8908.3	7178.1	2934.0	963.1	786.7	646.7	526.3	450.7	405.9	386.3	383.5
35°	8776.7	6870.2	2334.8	865.1	699.9	557.1	442.3	377.9	344.3	327.6	330.4
37.5°	8703.9	6595.8	1819.7	786.7	629.9	478.7	380.7	324.8	294.0	280.0	277.2
40°	8751.5	6371.8	1447.4	716.7	551.5	411.5	327.6	280.0	249.2	229.6	229.6
42.5°	8975.5	6273.9	1167.4	649.5	478.7	355.5	285.6	240.8	207.2	187.6	190.4
45°	9658.5	6377.4	977.1	587.9	411.5	308.0	246.4	198.8	168.0	154.0	151.2
47.5°	10792.4	6766.6	845.5	523.5	352.7	263.2	207.2	165.2	134.4	123.2	120.4
50°	12774.5	7570.1	747.5	459.1	299.6	224.0	170.8	131.6	106.4	95.2	95.2
52.5°	15501.3	9322.6	677.5	386.3	252.0	190.4	140.0	106.4	84.0	75.6	72.8
55°	18351.2	11170.3	641.1	324.8	210.0	156.8	112.0	84.0	64.4	56.0	53.2
57.5°	21092.0	12620.5	599.1	263.2	168.0	120.4	86.8	64.4	44.8	39.2	36.4
60°	23720.8	13793.5	509.5	210.0	131.6	86.8	64.4	44.8	30.8	25.2	25.2
62.5°	26072.5	14476.6	400.3	168.0	100.8	61.6	42.0	33.6	22.4	16.8	16.8
65°	26346.8	13589.2	302.4	128.8	72.8	39.2	25.2	25.2	16.8	11.2	11.2
66°	25795.3	12836.1	266.0	117.6	64.4	33.6	22.4	19.6	14.0	8.4	8.4
67.5°	24563.5	11551.1	229.6	100.8	53.2	25.2	16.8	16.8	11.2	5.6	5.6
70°	21223.6	9434.6	182.0	75.6	39.2	19.6	11.2	11.2	8.4	5.6	5.6
72.5°	16176.0	7043.7	148.4	56.0	28.0	14.0	8.4	8.4	8.4	5.6	5.6
75°	9756.5	3793.4	114.8	42.0	25.2	11.2	5.6	8.4	11.2	8.4	5.6
77.5°	3594.7	1290.6	89.6	33.6	19.6	11.2	5.6	5.6	11.2	8.4	8.4
80°	881.9	335.9	64.4	28.0	19.6	11.2	5.6	5.6	11.2	11.2	11.2
82.5°	408.7	142.8	44.8	25.2	19.6	11.2	5.6	5.6	8.4	11.2	11.2
85°	235.2	67.2	36.4	28.0	19.6	11.2	5.6	5.6	8.4	11.2	11.2
87.5°	95.2	33.6	33.6	28.0	22.4	14.0	5.6	5.6	5.6	8.4	8.4
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)