

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: P651101

Luminaire Tested: **GALN-SA8C-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34538.2 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

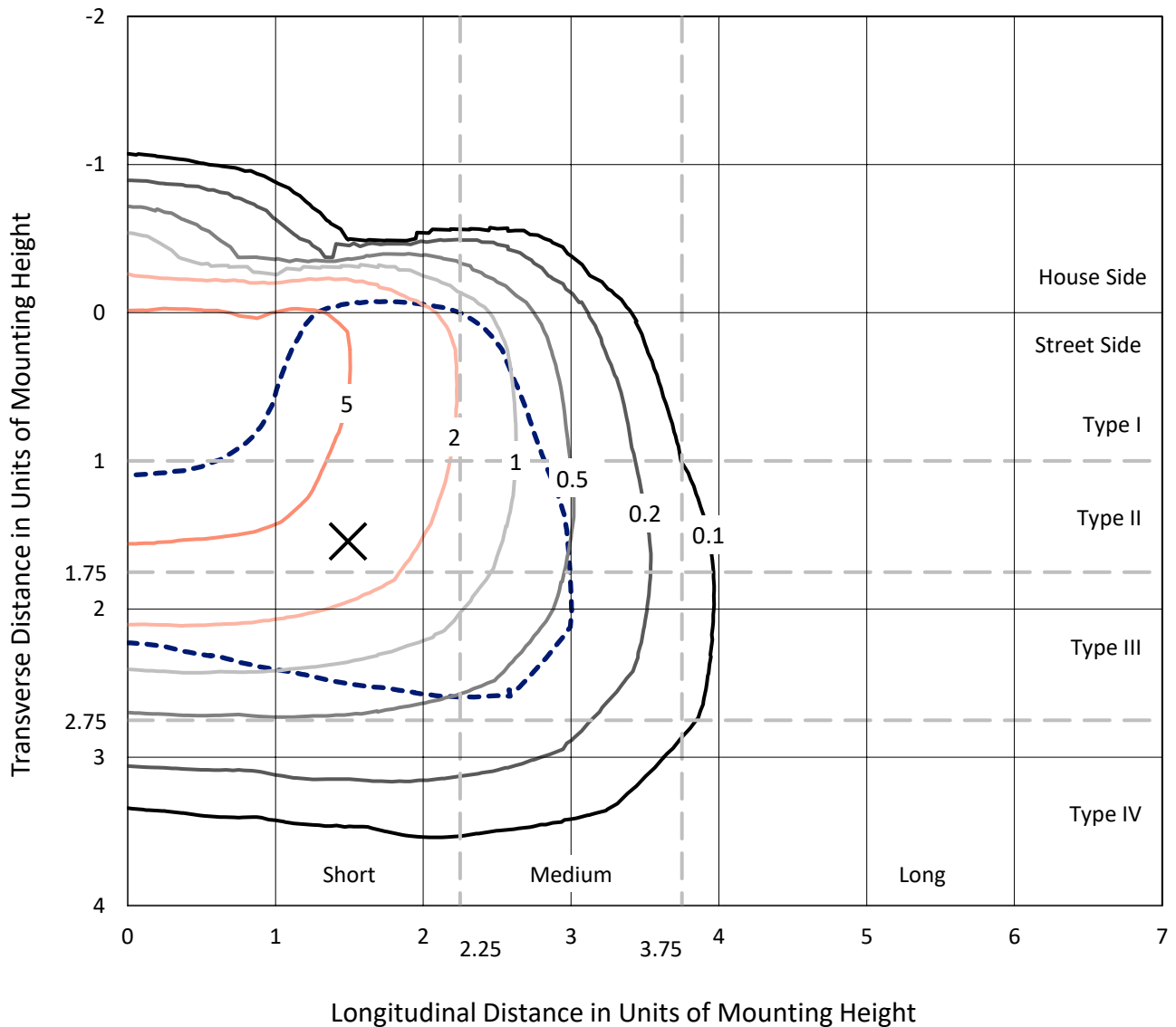
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

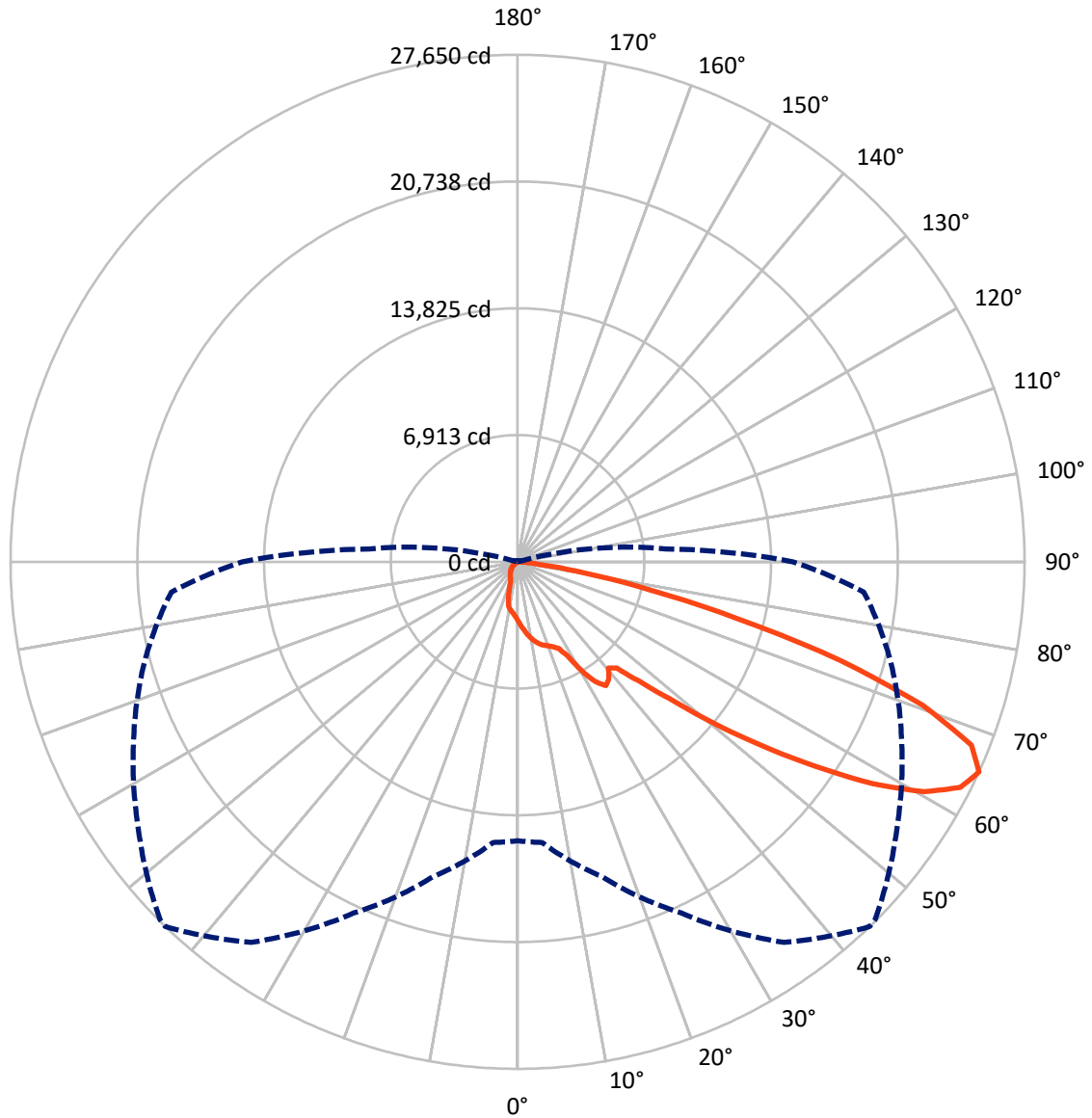
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3182.2	0.0	3182.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	31356.0	0.0	31356.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	34538.2	0.0	34538.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.7	0.9
10°-20°	962.2	2.8
20°-30°	1631.6	4.7
30°-40°	2712.8	7.9
40°-50°	4736.6	13.7
50°-60°	9253.7	26.8
60°-70°	10736.4	31.1
70°-80°	3909.7	11.3
80°-90°	275.5	0.8
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°	34538.2	100.0
0°-180°	34538.2	100.0

Coefficient of Utilization



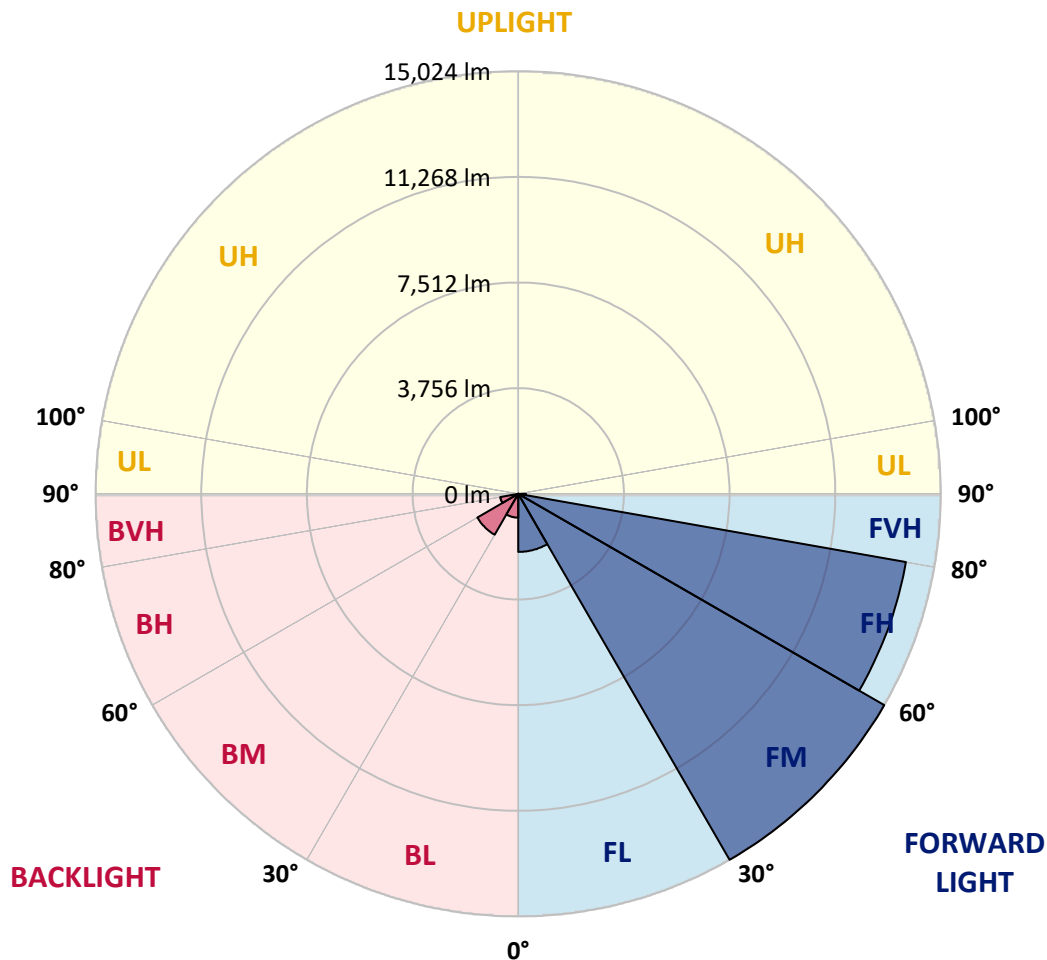
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2065.7	6.0			
FM (30°-60°)	15024.2	43.5			
FH (60°-80°)	13994.4	40.5			G5
FVH (80°-90°)	271.7	0.8			G3/500
BL (0°-30°)	847.8	2.5	B2/1000		
BM (30°-60°)	1678.9	4.9	B2/2500		
BH (60°-80°)	651.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3214.5	3214.5	3214.5	3214.5	3214.5	3214.5	3214.5	3214.5	3214.5	3214.5	3214.5
2.5°	3618.2	3602.4	3594.5	3552.3	3520.6	3481.1	3481.1	3430.9	3372.8	3309.5	3251.4
5°	4022.1	3995.7	3961.4	3924.4	3850.5	3745.0	3745.0	3639.3	3518.0	3409.8	3291.0
7.5°	4410.0	4386.2	4328.2	4257.0	4135.5	4024.7	4016.8	3863.7	3718.6	3554.9	3386.0
10°	4750.5	4732.0	4681.8	4544.6	4417.9	4272.8	4270.1	4098.6	3929.7	3729.1	3520.6
12.5°	4988.0	4990.6	4924.6	4792.7	4629.0	4491.8	4481.3	4312.4	4135.5	3919.1	3663.1
15°	5156.8	5156.8	5088.3	4940.5	4792.7	4671.3	4660.7	4513.0	4330.8	4095.9	3818.8
17.5°	5204.4	5220.3	5146.3	5014.4	4895.6	4790.1	4787.4	4663.3	4518.2	4291.3	3977.2
20°	5185.9	5201.8	5143.7	5040.8	4959.0	4898.2	4890.3	4840.2	4705.6	4491.8	4146.1
22.5°	5146.3	5162.1	5119.9	5059.2	5019.7	5038.1	5024.9	5067.2	4995.9	4737.3	4346.7
25°	5154.2	5170.0	5138.4	5104.1	5138.4	5251.9	5286.2	5468.3	5404.9	5048.7	4563.1
27.5°	5402.3	5434.0	5389.1	5404.9	5526.4	5790.3	5856.2	6170.3	5890.5	5444.5	4900.9
30°	5953.9	5932.8	5848.3	5924.8	6347.1	6906.6	6888.1	6838.0	6399.9	5901.1	5302.0
32.5°	6455.3	6436.8	6431.6	6761.5	7526.9	7798.7	7785.5	7299.9	6856.5	6423.6	5697.9
35°	6658.5	6587.3	6571.5	7371.1	8651.1	8292.2	8210.3	7489.9	7410.7	6993.8	6101.7
37.5°	7270.9	7220.7	6975.3	7471.4	8202.4	8083.7	8020.4	7817.2	8001.9	7497.8	6558.3
40°	8532.4	8392.5	8170.8	7685.1	7566.4	7616.6	7679.9	8236.8	8701.2	8186.6	7167.9
42.5°	10100.0	10068.4	9656.6	8751.4	7862.0	7930.6	8012.5	9113.0	9706.7	9223.8	8162.8
45°	11981.7	12026.6	11432.8	10363.9	9197.4	9255.5	9374.2	10406.1	11068.6	10836.3	9727.8
47.5°	13691.9	13657.6	13457.0	12345.9	11269.1	11139.8	11332.5	12066.2	12952.9	12989.8	11670.3
50°	15412.6	15594.7	15296.4	14861.0	14061.4	13789.5	13718.2	14077.2	15428.4	15251.6	14003.3
52.5°	17885.5	17980.5	17421.0	17310.1	17492.2	16610.8	16539.5	16626.6	17835.3	17228.3	15750.4
55°	19439.9	19384.5	19176.0	20041.6	20762.1	19661.6	19571.9	19220.9	19833.1	18624.4	17431.6
57.5°	19930.8	20010.0	20495.6	22060.6	23765.5	22831.2	22667.6	21670.0	21274.1	19925.6	18978.1
60°	19711.8	19856.9	20904.7	23232.4	25597.0	25457.2	25317.3	23641.4	22308.7	21012.9	20062.7
62.5°	18152.1	18355.2	20031.1	23023.9	26217.2	27090.8	26916.6	24871.3	22997.5	21540.7	20252.8
65°	15212.0	15362.5	17769.3	21131.6	25335.8	27650.3	27587.0	25256.6	23105.7	21057.7	18951.7
67.5°	10844.3	11356.2	13586.3	17808.9	22728.3	26694.9	26803.1	24794.8	22089.6	18970.2	15695.0
70°	6816.9	7165.2	8764.6	12749.7	18220.6	23419.7	23776.0	22680.8	19170.8	14787.1	10506.4
72.5°	3251.4	3510.1	4650.1	8070.5	12860.6	18426.5	18708.9	18619.2	14824.1	9316.2	5420.8
75°	1448.9	1546.5	2219.5	4119.7	8302.8	12385.5	13116.6	13237.9	9263.4	4557.8	2108.6
77.5°	739.0	741.6	1039.8	1995.2	4146.1	7389.6	7534.8	7959.6	5022.3	2008.4	733.7
80°	393.3	419.7	551.6	942.2	2150.9	3639.3	3620.9	3979.9	2227.5	984.4	245.4
82.5°	176.9	195.3	311.4	493.5	1050.4	1380.2	1488.5	1628.3	955.4	628.1	108.2
85°	52.8	63.3	153.1	248.1	380.0	398.5	446.0	575.3	541.0	446.0	55.4
87.5°	7.9	7.9	63.3	68.6	55.4	71.2	73.9	81.8	174.2	163.7	29.0
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°	3214.5	3214.5	3214.5	3214.5	3214.5	3214.5	3214.5	3214.5	3214.5	3214.5	3214.5
2.5°	3219.8	3201.3	3135.3	3079.9	3032.4	3003.4	2969.1	2948.0	2937.4	2929.5	2932.1
5°	3233.0	3188.1	3074.6	2984.9	2916.3	2842.3	2792.2	2763.2	2750.0	2728.9	2728.9
7.5°	3306.8	3235.6	3077.2	2940.0	2821.2	2721.0	2625.9	2591.6	2567.9	2562.6	2557.3
10°	3412.4	3322.7	3106.2	2916.3	2747.4	2610.1	2475.5	2356.7	2264.4	2209.0	2201.1
12.5°	3544.4	3415.0	3151.1	2900.4	2684.0	2441.2	2084.9	1844.7	1683.8	1633.6	1641.5
15°	3665.8	3525.9	3196.0	2887.2	2567.9	2024.2	1620.4	1345.9	1264.1	1256.2	1258.9
17.5°	3810.9	3644.6	3248.8	2868.7	2248.6	1546.5	1203.5	1129.5	1145.4	1171.8	1169.2
20°	3961.4	3771.3	3312.1	2757.9	1794.6	1163.9	1063.6	1071.5	1095.2	1119.0	1124.2
22.5°	4122.3	3916.5	3386.0	2491.4	1369.7	1013.4	1008.2	1018.7	1042.4	1068.8	1074.1
25°	4344.0	4098.6	3441.5	2143.0	1037.2	936.9	947.5	965.9	987.0	1016.1	1021.3
27.5°	4629.0	4344.0	3470.5	1689.1	897.3	868.2	870.9	897.3	923.7	950.1	950.1
30°	4998.6	4636.9	3412.4	1277.3	828.7	802.3	791.7	807.6	841.9	868.2	870.9
32.5°	5328.4	4914.0	3259.4	976.5	778.5	741.6	715.2	717.9	731.1	746.9	749.5
35°	5658.3	5183.3	2998.1	820.7	725.8	683.6	644.0	622.8	612.2	604.3	612.2
37.5°	6080.6	5518.5	2649.7	746.9	680.9	628.1	572.7	527.8	490.9	467.1	472.4
40°	6624.2	5983.0	2238.0	699.4	638.7	575.3	501.4	443.4	380.0	358.9	348.3
42.5°	7521.6	6687.5	1805.2	659.8	596.4	519.9	427.6	348.3	290.3	269.2	274.5
45°	8938.7	7577.0	1390.8	617.5	554.2	459.2	358.9	274.5	227.0	216.4	221.7
47.5°	10817.9	8727.6	1071.5	570.0	501.4	393.3	282.4	216.4	187.4	184.8	182.1
50°	12586.1	9799.2	894.7	517.3	438.1	327.2	232.3	182.1	163.7	161.0	161.0
52.5°	14185.4	10567.2	728.4	456.6	369.5	269.2	195.3	161.0	145.2	137.3	137.3
55°	15607.9	11068.6	591.1	382.7	290.3	213.8	168.9	145.2	126.7	116.1	113.5
57.5°	16682.0	11129.3	443.4	306.1	216.4	166.3	145.2	126.7	105.5	92.3	87.1
60°	17141.3	10604.1	327.2	232.3	161.0	132.0	116.1	102.9	79.1	66.0	63.3
62.5°	16679.4	9582.7	242.8	176.9	124.0	97.6	81.8	76.5	55.4	39.6	36.9
65°	15024.6	8107.4	192.7	134.6	92.3	71.2	52.8	50.1	34.3	18.5	15.8
67.5°	12037.1	6349.8	153.1	100.2	66.0	47.5	34.3	31.7	18.5	5.3	5.3
70°	7827.7	4059.0	124.0	73.9	42.2	31.7	21.1	15.8	10.6	2.6	0.0
72.5°	3871.6	1897.5	100.2	58.0	29.0	15.8	7.9	5.3	7.9	0.0	0.0
75°	1501.7	675.7	73.9	39.6	15.8	7.9	5.3	0.0	2.6	0.0	0.0
77.5°	498.8	224.3	44.8	21.1	10.6	5.3	0.0	0.0	0.0	0.0	0.0
80°	184.8	87.1	23.7	13.2	5.3	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	73.9	34.3	15.8	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.9	21.1	10.6	7.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.4	15.8	10.6	7.9	5.3	2.6	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)