

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: P456500

Luminaire Tested: **GALN-SA7D-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36684 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

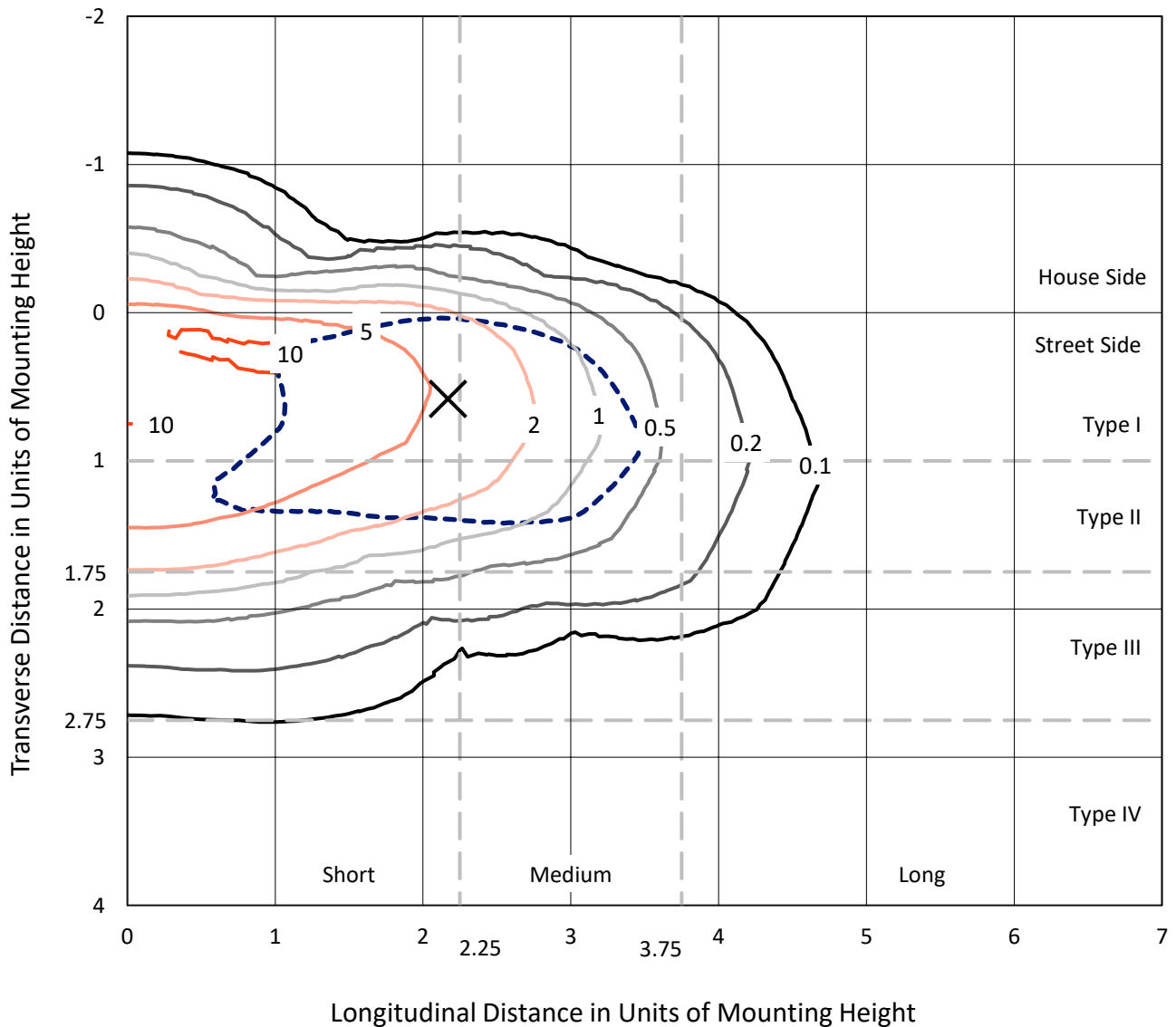
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

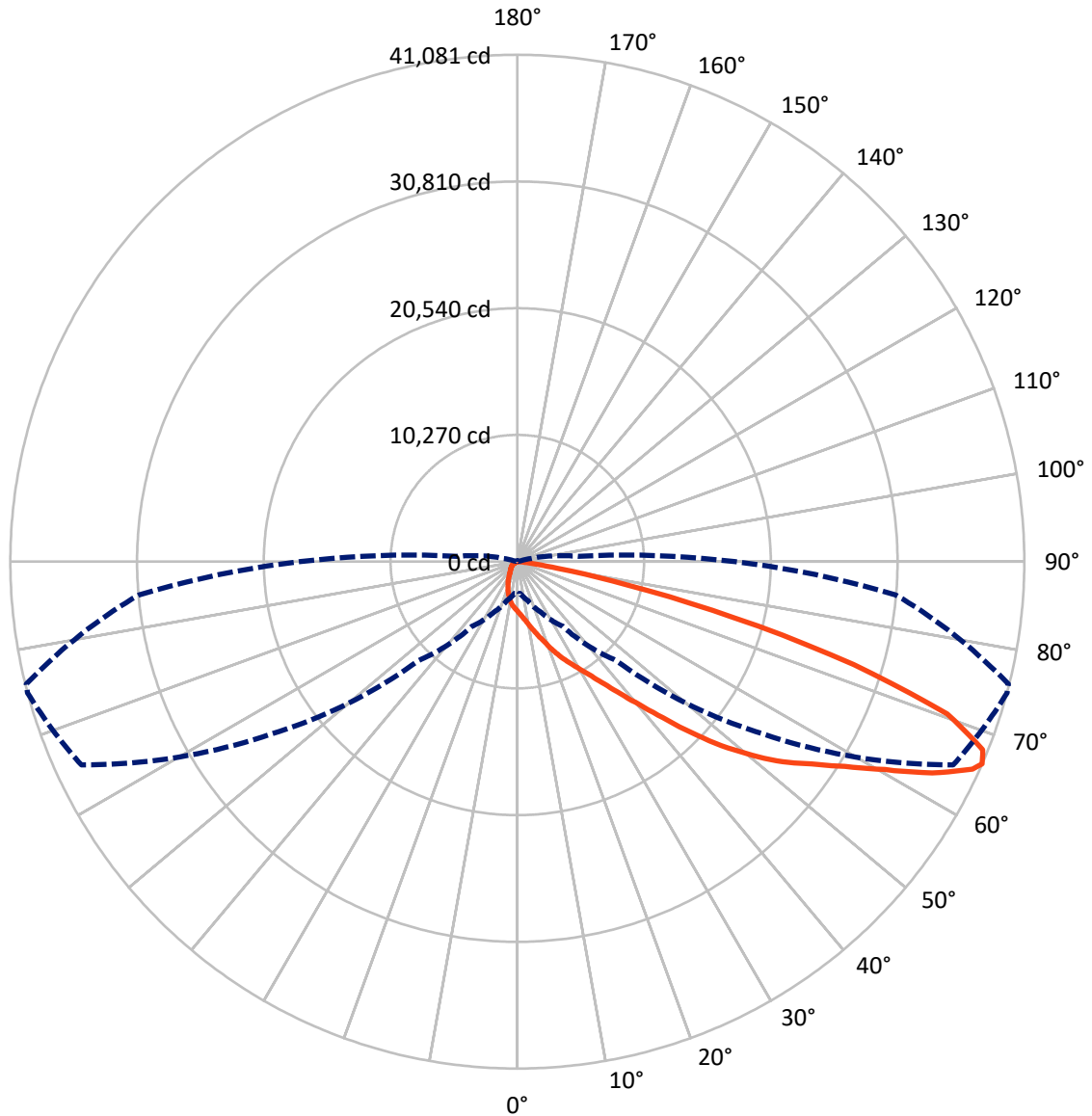
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2264.7	0.0	2264.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	34419.3	0.0	34419.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	36684.0	0.0	36684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.9	1.1
10°-20°	1138.8	3.1
20°-30°	1966.4	5.4
30°-40°	3547.0	9.7
40°-50°	6407.8	17.5
50°-60°	9989.8	27.2
60°-70°	9489.9	25.9
70°-80°	3556.6	9.7
80°-90°	200.7	0.5
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°	36684.0	100.0
0°-180°	36684.0	100.0

Coefficient of Utilization



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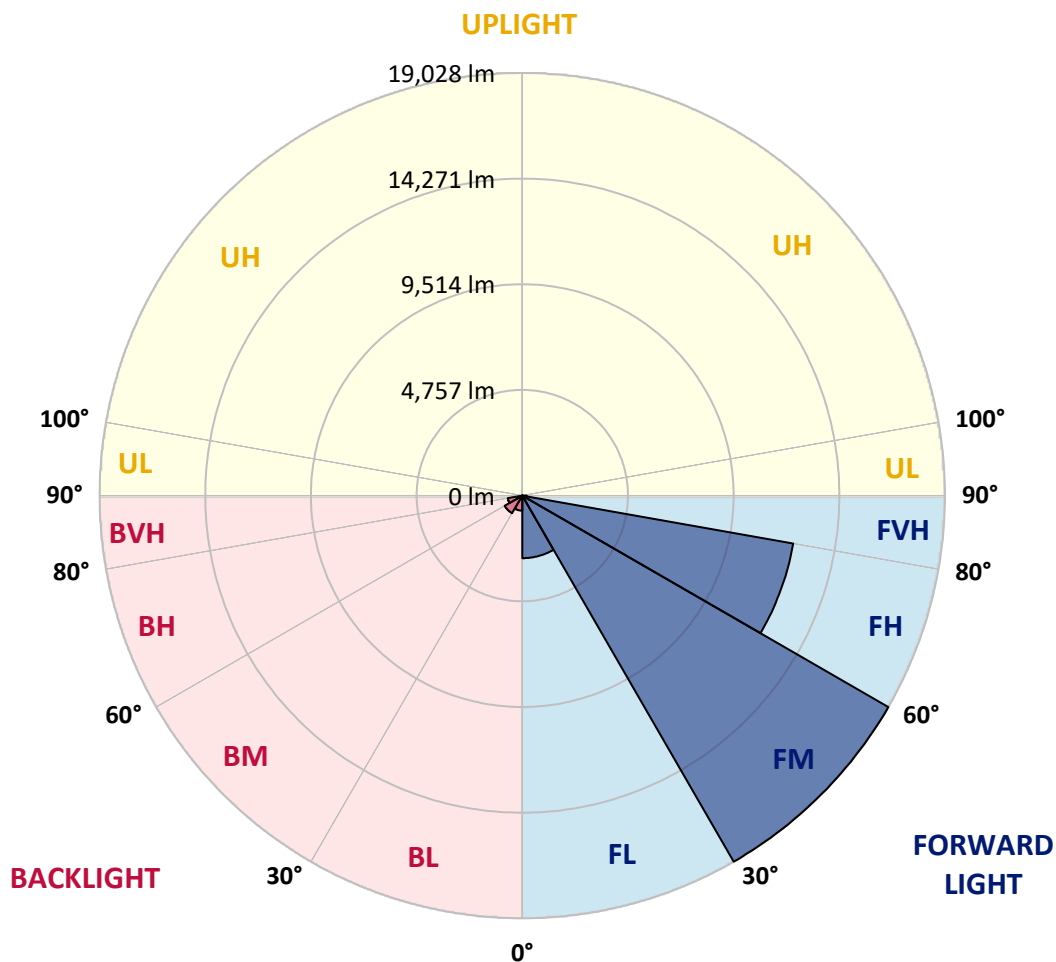
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2815.8	7.7			
FM (30°-60°)	19028.0	51.9			
FH (60°-80°)	12385.2	33.8			G5
FVH (80°-90°)	190.3	0.5			G2/225
BL (0°-30°)	676.3	1.8	B2/1000		
BM (30°-60°)	916.7	2.5	B1/1000		
BH (60°-80°)	661.3	1.8	B2/1000		G2/1000
BVH (80°-90°)	10.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4011.8	4011.8	4011.8	4011.8	4011.8	4011.8	4011.8	4011.8	4011.8	4011.8	4011.8
2.5°	4793.0	4733.3	4752.3	4725.1	4662.8	4570.5	4489.2	4372.5	4255.9	4236.9	4106.7
5°	5425.0	5408.7	5387.0	5308.3	5264.9	5123.9	4955.7	4755.0	4513.6	4470.2	4234.2
7.5°	5856.2	5848.1	5859.0	5818.3	5780.3	5652.8	5473.8	5199.8	4825.5	4801.1	4407.8
10°	5997.3	6019.0	6059.7	6124.8	6184.5	6143.8	6008.1	5666.4	5229.7	5159.1	4605.8
12.5°	5915.9	5940.3	6038.0	6211.6	6404.2	6515.4	6461.1	6211.6	5658.2	5601.3	4828.2
15°	5707.1	5736.9	5875.2	6143.8	6488.3	6802.9	6938.5	6759.5	6157.3	6065.1	5096.8
17.5°	5397.8	5441.2	5639.2	5994.6	6466.6	7009.0	7391.5	7331.8	6689.0	6602.2	5389.7
20°	5164.6	5197.1	5365.3	5772.2	6374.3	7123.0	7822.8	7991.0	7345.4	7196.2	5734.2
22.5°	5319.2	5330.0	5387.0	5631.1	6208.9	7152.8	8202.5	8677.2	8042.5	7909.6	6092.2
25°	6076.0	5967.5	5910.5	5856.2	6173.6	7125.7	8547.0	9393.3	8736.9	8595.8	6447.6
27.5°	7269.4	7220.6	6933.1	6547.9	6474.7	7160.9	8774.9	10071.4	9390.6	9238.7	6794.8
30°	8568.7	8484.6	8308.3	7744.1	7177.2	7410.5	8940.3	10730.6	10163.7	9962.9	7112.1
32.5°	9762.2	9816.5	9553.4	8972.9	8316.5	7942.1	9154.6	11449.4	11050.6	10801.1	7481.0
35°	11153.7	11262.2	10858.1	10302.0	9534.4	8902.4	9572.3	12260.4	12176.3	11861.7	8050.6
37.5°	12566.9	12632.0	12385.2	11604.0	10912.3	10123.0	10359.0	13261.3	13562.4	13293.9	8731.5
40°	13755.0	13844.5	13662.8	12968.4	12230.6	11536.2	11500.9	14351.7	15211.6	14934.9	9745.9
42.5°	14663.7	14731.5	14736.9	14245.9	13581.4	13266.7	12957.5	15743.2	17278.5	16958.4	10923.2
45°	15811.0	15908.7	15851.7	15518.1	15021.7	14964.8	14804.7	17425.0	19752.3	19348.1	12450.3
47.5°	17585.0	17650.1	17509.1	17115.7	16611.2	16700.7	16605.8	19310.1	22274.9	21927.7	14031.7
50°	18816.5	18925.0	19125.7	19283.0	18916.8	18585.9	18303.8	21070.5	24670.0	24358.1	15648.3
52.5°	18802.9	18981.9	19616.7	20408.7	21208.9	21108.5	20297.5	23015.4	26956.6	26571.5	17167.3
55°	17536.2	17883.4	18816.5	20221.5	22437.6	23541.6	23172.7	25266.8	28931.3	28670.9	18927.7
57.5°	14921.4	15132.9	16429.5	18393.3	21751.4	24686.3	26503.6	28318.3	31299.3	31177.2	21661.9
60°	10036.2	10131.1	11799.3	14227.0	18518.1	23544.3	28944.9	32010.0	34215.2	34155.5	24854.5
62.5°	5750.5	5791.1	7000.9	9048.8	13177.2	19953.0	29151.0	36564.2	37711.6	37744.2	28548.9
65°	3094.9	3116.6	4093.1	5311.0	8018.1	14221.5	26213.4	39059.7	40538.0	40600.4	30838.2
66°	2671.8	2568.7	3257.7	4527.1	6379.8	11319.2	24355.4	38970.2	41080.5	41012.7	30756.8
67.5°	2031.6	2123.9	2601.3	3480.1	4727.9	8047.9	20107.6	37236.9	40668.2	40456.6	29506.4
70°	1453.9	1491.9	1852.6	2481.9	3219.7	4415.9	12849.0	30927.7	36963.0	36678.2	25706.2
72.5°	938.5	979.2	1312.8	1795.7	2327.3	2411.4	7193.5	22345.4	28497.3	28456.6	19359.0
75°	670.0	708.0	868.0	1285.7	1749.5	1491.9	3463.8	15059.7	18116.7	17994.6	11975.6
77.5°	485.5	504.5	580.5	840.9	1250.5	1068.7	1605.8	8042.5	9019.0	9444.9	5292.0
80°	279.4	295.7	404.2	512.7	846.3	729.7	767.6	3227.9	3328.2	3168.2	1654.6
82.5°	138.3	157.3	241.4	349.9	528.9	491.0	352.6	971.1	1025.3	998.2	417.7
85°	32.5	40.7	135.6	230.6	257.7	219.7	170.9	284.8	352.6	344.5	160.0
87.5°	2.7	5.4	48.8	40.7	43.4	73.2	59.7	73.2	113.9	105.8	57.0
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°	4011.8	4011.8	4011.8	4011.8	4011.8	4011.8	4011.8	4011.8	4011.8	4011.8	4011.8
2.5°	4047.0	3995.5	3846.3	3699.8	3577.8	3450.3	3333.6	3265.8	3238.7	3208.9	3222.4
5°	4104.0	3979.2	3678.1	3417.7	3162.8	2945.8	2772.2	2660.9	2606.7	2598.6	2585.0
7.5°	4179.9	3965.6	3499.1	3092.2	2758.6	2517.2	2319.2	2159.1	2110.3	2066.9	2031.6
10°	4272.2	3941.2	3276.7	2750.5	2395.1	2091.3	1830.9	1641.1	1543.4	1516.3	1535.3
12.5°	4369.8	3895.1	3043.4	2435.8	2026.2	1638.3	1396.9	1302.0	1274.9	1264.0	1266.7
15°	4467.5	3838.2	2799.3	2132.0	1613.9	1307.4	1196.2	1171.8	1160.9	1155.5	1150.1
17.5°	4557.0	3745.9	2525.3	1836.3	1307.4	1117.5	1076.9	1055.2	1033.5	1025.3	1011.8
20°	4662.8	3640.1	2278.5	1505.4	1106.7	1011.8	962.9	922.2	889.7	868.0	865.3
22.5°	4763.1	3504.5	2020.8	1247.7	1009.0	908.7	830.0	786.6	748.6	721.5	729.7
25°	4817.4	3339.1	1790.2	1087.7	919.5	805.6	718.8	664.6	623.9	610.3	607.6
27.5°	4817.4	3135.6	1565.1	995.5	838.2	713.4	623.9	572.3	545.2	526.2	528.9
30°	4779.4	2910.5	1356.2	925.0	767.6	632.0	547.9	501.8	480.1	466.5	463.8
32.5°	4749.6	2696.2	1177.2	857.1	694.4	561.5	488.2	453.0	431.3	417.7	417.7
35°	4795.7	2511.8	1038.9	789.3	626.6	507.2	442.1	409.6	387.9	377.0	374.3
37.5°	4917.7	2343.6	933.1	716.1	564.2	461.1	409.6	371.6	349.9	336.3	330.9
40°	5218.8	2248.6	854.4	648.3	504.5	423.1	371.6	336.3	309.2	295.7	292.9
42.5°	5701.6	2251.4	778.5	585.9	458.4	390.6	339.1	298.4	268.5	255.0	252.3
45°	6428.6	2354.4	718.8	526.2	417.7	355.3	303.8	260.4	233.3	219.7	219.7
47.5°	7299.3	2555.2	667.3	474.7	379.7	322.8	268.5	225.1	198.0	187.2	187.2
50°	8243.2	2815.6	615.7	420.4	347.2	287.5	230.6	195.3	173.6	165.5	165.5
52.5°	9206.2	3130.2	564.2	377.0	311.9	249.5	198.0	173.6	154.6	149.2	146.5
55°	10470.2	3531.6	509.9	330.9	274.0	214.3	176.3	151.9	130.2	122.1	119.3
57.5°	12415.0	4136.5	450.3	290.2	225.1	179.0	151.9	127.5	103.1	89.5	86.8
60°	14761.3	4874.3	387.9	255.0	181.7	146.5	122.1	97.6	75.9	59.7	57.0
62.5°	16958.4	5343.6	328.2	214.3	143.8	111.2	86.8	73.2	54.2	38.0	35.3
65°	17929.5	5186.3	271.2	173.6	113.9	78.7	57.0	51.5	32.5	16.3	13.6
66°	17606.7	4953.0	249.5	157.3	103.1	67.8	48.8	43.4	24.4	8.1	8.1
67.5°	16654.6	4402.4	217.0	135.6	89.5	54.2	38.0	32.5	13.6	2.7	0.0
70°	14270.4	3561.5	170.9	100.4	65.1	38.0	21.7	16.3	8.1	0.0	0.0
72.5°	10961.1	2652.8	135.6	75.9	46.1	21.7	10.8	5.4	8.1	0.0	0.0
75°	6716.1	1516.3	105.8	57.0	29.8	13.6	8.1	0.0	8.1	2.7	0.0
77.5°	2981.0	680.8	70.5	38.0	21.7	10.8	5.4	0.0	5.4	2.7	0.0
80°	754.1	222.4	40.7	27.1	16.3	8.1	2.7	0.0	5.4	5.4	2.7
82.5°	206.1	81.4	29.8	21.7	13.6	8.1	2.7	0.0	5.4	5.4	5.4
85°	81.4	38.0	27.1	21.7	16.3	8.1	2.7	0.0	5.4	5.4	5.4
87.5°	38.0	27.1	27.1	24.4	19.0	8.1	2.7	0.0	5.4	2.7	5.4
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)