

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: P456489

Luminaire Tested: **GALN-SA7D-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456489
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-SA7D-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA 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: 40161 lumens
Efficiency: N/A
Efficacy: 92.8 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

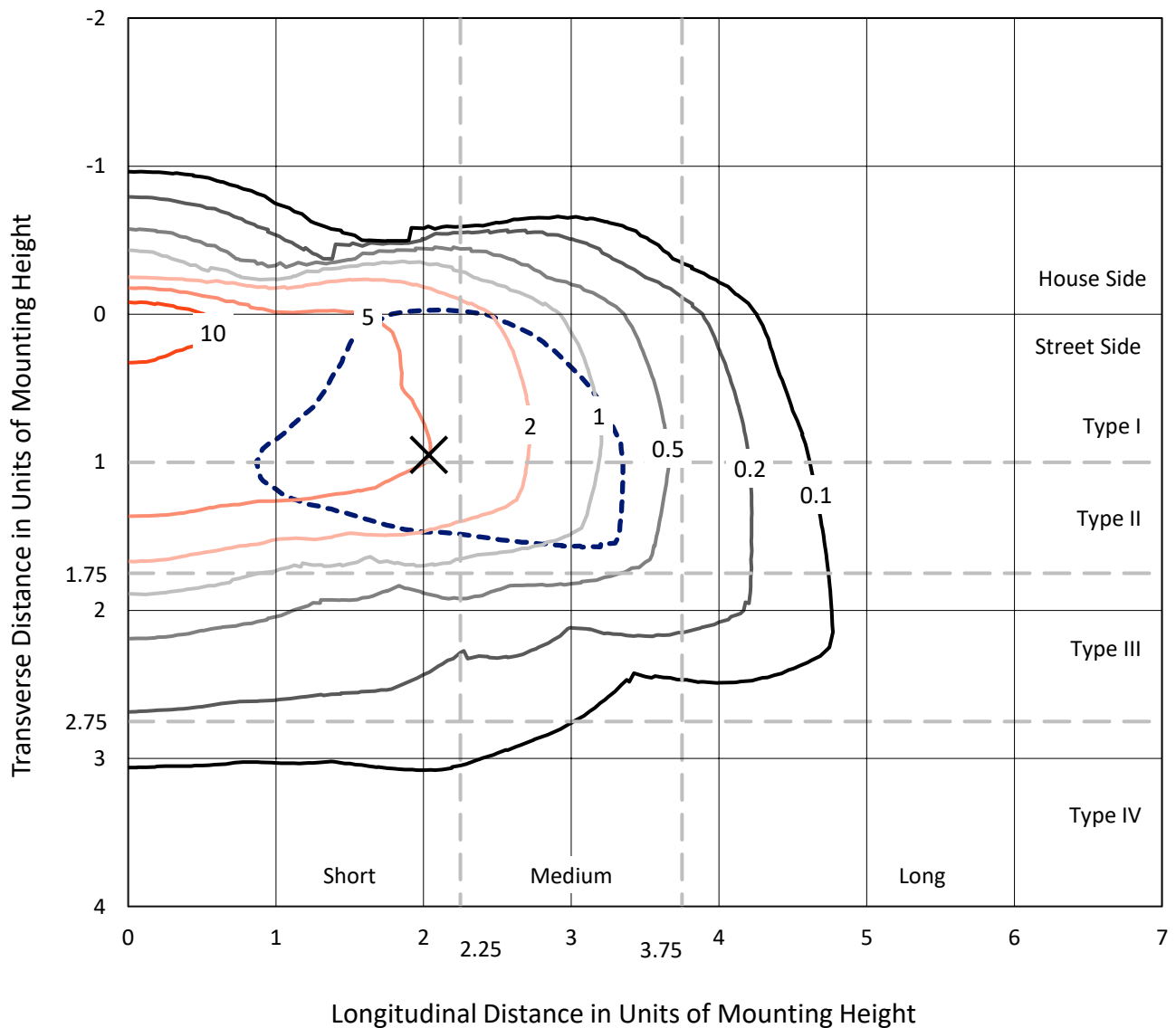
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

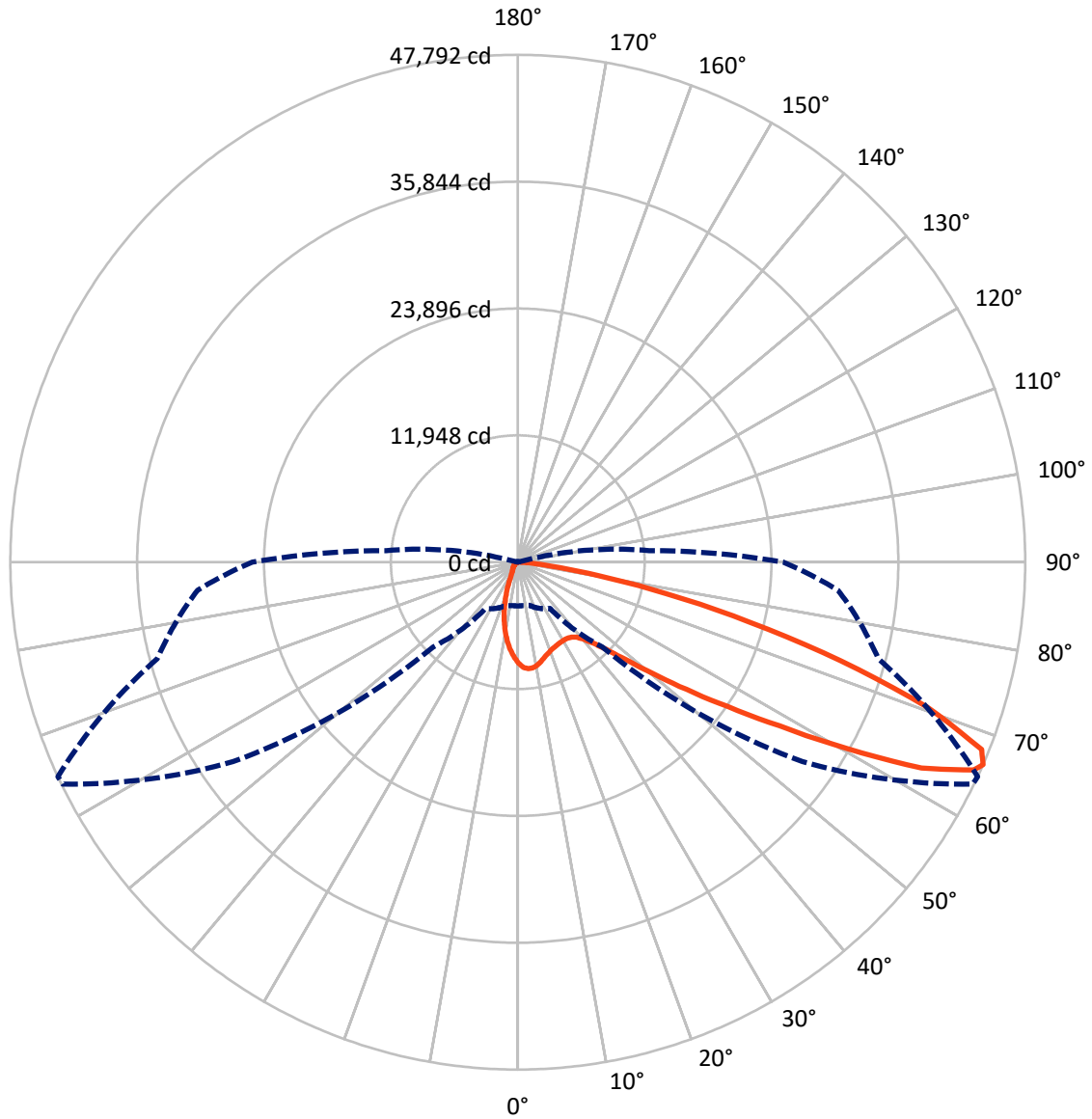
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4153.2	0.0	4153.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	36007.8	0.0	36007.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	40161.0	0.0	40161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.9	1.9
10°-20°	1697.1	4.2
20°-30°	2431.1	6.1
30°-40°	3550.8	8.8
40°-50°	5954.1	14.8
50°-60°	9936.4	24.7
60°-70°	10547.2	26.3
70°-80°	4776.8	11.9
80°-90°	488.8	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°	40161.0	100.0
0°-180°	40161.0	100.0

Coefficient of Utilization



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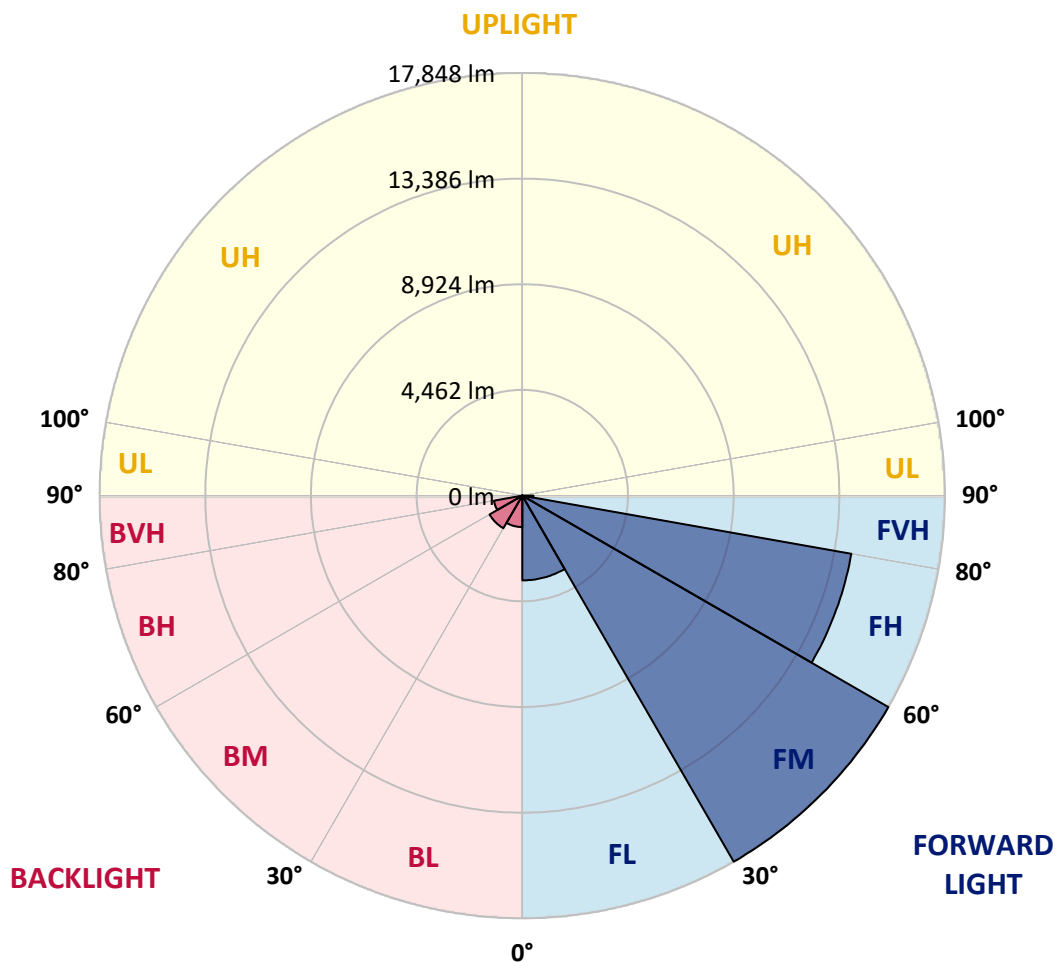
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3578.5	8.9			
FM (30°-60°)	17848.5	44.4			
FH (60°-80°)	14107.6	35.1			G5
FVH (80°-90°)	473.2	1.2			G3/500
BL (0°-30°)	1328.6	3.3	B3/2500		
BM (30°-60°)	1592.8	4.0	B2/2500		
BH (60°-80°)	1216.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	15.6	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°	9523.7	9523.7	9523.7	9523.7	9523.7	9523.7	9523.7	9523.7	9523.7	9523.7	9523.7
2.5°	10036.3	10047.2	10060.7	10079.7	10093.3	10052.6	9995.6	9930.5	9917.0	9778.6	9610.5
5°	9499.2	9515.5	9634.9	9700.0	9846.4	9979.4	10063.4	10074.3	10068.9	9938.7	9670.1
7.5°	8734.3	8780.4	8897.1	9011.0	9285.0	9537.2	9835.6	10044.5	10058.0	10022.8	9689.1
10°	8113.1	8143.0	8202.7	8427.8	8655.6	9040.8	9458.6	9851.9	9884.4	10025.5	9672.8
12.5°	7627.6	7671.0	7744.2	7917.8	8191.8	8555.3	9030.0	9558.9	9626.7	9973.9	9626.7
15°	7288.5	7310.2	7383.5	7554.4	7820.2	8156.5	8636.7	9252.4	9312.1	9906.1	9618.6
17.5°	7128.5	7152.9	7204.5	7340.1	7559.8	7871.7	8341.0	9005.6	9081.5	9862.7	9648.4
20°	7171.9	7193.6	7196.3	7266.8	7416.0	7679.1	8124.0	8775.0	8872.6	9835.6	9697.3
22.5°	7418.7	7421.5	7388.9	7356.4	7407.9	7597.8	7991.1	8628.5	8728.9	9830.2	9754.2
25°	7787.6	7795.8	7741.5	7627.6	7524.5	7622.2	7961.2	8533.6	8623.1	9816.6	9789.5
27.5°	8297.6	8294.9	8278.6	8088.7	7795.8	7730.7	7985.7	8482.0	8558.0	9778.6	9803.0
30°	9011.0	8989.3	8954.0	8739.7	8292.2	7993.8	8088.7	8449.5	8520.0	9724.4	9767.8
32.5°	9713.5	9794.9	9789.5	9586.0	9027.3	8463.1	8303.0	8492.9	8544.4	9689.1	9716.2
35°	10532.7	10530.0	10738.9	10662.9	10009.2	9062.5	8669.2	8636.7	8677.3	9713.5	9691.8
37.5°	11292.2	11362.7	11688.2	11766.9	11170.2	9908.8	9187.3	8945.9	8959.5	9879.0	9751.5
40°	12238.9	12374.5	12860.1	13123.2	12596.9	11164.7	9952.2	9512.8	9515.5	10285.9	9976.6
42.5°	13459.5	13673.8	14126.8	14566.2	14284.1	12651.2	11099.6	10410.6	10405.2	11002.0	10492.0
45°	14943.3	15092.5	15607.8	16305.0	16125.9	14726.3	12770.5	11802.2	11731.6	12176.5	11406.1
47.5°	16223.6	16427.0	16950.5	17745.3	18559.1	17259.8	14767.0	13714.5	13668.4	14045.4	12974.0
50°	16782.4	16961.4	17512.0	18626.9	20598.9	20585.3	17739.9	16505.7	16427.0	16630.5	15399.0
52.5°	16169.3	16337.5	16893.6	18282.4	21559.1	24637.8	22047.4	20007.5	19912.6	19652.2	18295.9
55°	14069.8	14208.2	15030.1	16625.0	21190.2	27339.5	27982.3	24334.0	23965.1	22953.3	21575.4
57.5°	11202.7	11132.2	11642.1	13494.8	19025.6	28245.5	34074.7	29723.8	29064.6	25806.9	24350.3
60°	7763.2	7980.2	8186.4	9407.0	14305.8	26674.9	37864.1	36499.7	35631.6	28614.4	27008.6
62.5°	5707.1	5850.9	5986.5	6550.7	8994.7	21298.7	38534.0	43460.0	42689.6	31595.4	29544.8
65°	4513.6	4524.5	4578.7	5134.8	5926.9	13850.1	35314.3	47385.0	47187.0	34465.3	30572.8
66°	4112.2	4114.9	4199.0	4795.7	5319.2	11278.7	32734.7	47683.4	47791.9	35154.2	30271.7
67.5°	3594.1	3583.2	3705.3	4310.2	4844.6	8132.1	28118.0	46473.6	47116.5	35683.2	29189.4
70°	2785.8	2772.2	2921.4	3615.8	4462.1	5425.0	18689.3	39903.9	40940.0	34600.9	25825.9
72.5°	1855.4	1866.2	2121.2	2853.6	4258.7	4776.7	11243.4	30355.8	31820.6	28573.7	20316.8
75°	1082.3	1101.3	1391.5	2121.2	3697.2	4554.3	6363.6	21645.9	22581.7	19730.9	12656.6
77.5°	566.9	575.1	778.5	1399.7	2834.6	4228.8	4239.7	13828.4	14267.9	9588.8	5010.0
80°	301.1	293.0	417.7	843.6	1950.3	3713.4	3439.5	7321.1	7611.3	2848.1	1266.7
82.5°	113.9	124.8	222.4	553.4	1152.8	2666.4	2962.1	3236.0	3135.7	626.6	531.7
85°	21.7	27.1	94.9	328.2	580.5	1114.8	2183.6	1586.8	1470.2	236.0	306.5
87.5°	2.7	5.4	27.1	78.7	84.1	377.0	645.6	439.4	379.8	86.8	127.5
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°	9523.7	9523.7	9523.7	9523.7	9523.7	9523.7	9523.7	9523.7	9523.7	9523.7	9523.7
2.5°	9529.1	9455.8	9211.7	8970.3	8723.5	8501.0	8349.1	8102.3	8039.9	7950.4	7898.9
5°	9510.1	9339.2	8869.9	8357.3	7879.9	7364.5	6971.2	6591.4	6388.0	6284.9	6246.9
7.5°	9455.8	9184.6	8452.2	7649.3	6884.4	6114.0	5444.0	4934.1	4605.9	4380.7	4228.8
10°	9347.3	8973.0	7966.7	6862.7	5707.1	4689.9	3840.9	3195.3	2696.2	2538.9	2544.3
12.5°	9236.1	8737.0	7424.2	5989.2	4557.0	3274.0	2373.5	1863.5	1624.8	1546.1	1529.9
15°	9133.1	8511.9	6892.5	5142.9	3393.4	2121.2	1529.9	1350.8	1285.7	1272.2	1269.5
17.5°	9078.8	8303.0	6325.6	4174.6	2368.0	1440.3	1226.1	1177.2	1158.2	1144.7	1139.3
20°	9032.7	8121.3	5783.1	3268.6	1619.4	1179.9	1098.6	1052.5	1019.9	1006.3	998.2
22.5°	9000.1	7934.1	5221.6	2530.8	1239.6	1047.0	973.8	914.1	868.0	851.7	840.9
25°	8951.3	7728.0	4654.7	1849.9	1044.3	930.4	846.3	775.8	716.1	686.3	680.8
27.5°	8880.8	7494.7	4033.5	1369.8	933.1	827.3	724.2	637.4	577.8	545.2	547.9
30°	8766.9	7250.6	3412.3	1087.7	843.6	721.5	610.3	526.2	469.3	444.9	442.1
32.5°	8631.2	6954.9	2842.7	933.1	762.2	626.6	510.0	436.7	393.3	374.3	371.6
35°	8503.7	6656.5	2262.2	838.2	678.1	539.8	428.6	366.2	333.6	317.4	320.1
37.5°	8433.2	6390.7	1763.1	762.2	610.3	463.8	368.9	314.7	284.8	271.3	268.5
40°	8479.3	6173.7	1402.4	694.4	534.4	398.7	317.4	271.3	241.4	222.4	222.4
42.5°	8696.3	6078.8	1131.1	629.3	463.8	344.5	276.7	233.3	200.7	181.7	184.5
45°	9358.2	6179.1	946.7	569.6	398.7	298.4	238.7	192.6	162.8	149.2	146.5
47.5°	10456.8	6556.2	819.2	507.2	341.8	255.0	200.7	160.0	130.2	119.4	116.6
50°	12377.2	7334.7	724.2	444.9	290.2	217.0	165.5	127.5	103.1	92.2	92.2
52.5°	15019.2	9032.7	656.4	374.3	244.1	184.5	135.6	103.1	81.4	73.2	70.5
55°	17780.6	10823.0	621.2	314.7	203.4	151.9	108.5	81.4	62.4	54.3	51.5
57.5°	20436.1	12228.0	580.5	255.0	162.8	116.6	84.1	62.4	43.4	38.0	35.3
60°	22983.2	13364.6	493.7	203.4	127.5	84.1	62.4	43.4	29.8	24.4	24.4
62.5°	25261.7	14026.4	387.9	162.8	97.7	59.7	40.7	32.6	21.7	16.3	16.3
65°	25527.5	13166.6	293.0	124.8	70.5	38.0	24.4	24.4	16.3	10.9	10.9
66°	24993.2	12436.9	257.7	113.9	62.4	32.6	21.7	19.0	13.6	8.1	8.1
67.5°	23799.6	11191.9	222.4	97.7	51.5	24.4	16.3	16.3	10.9	5.4	5.4
70°	20563.6	9141.2	176.3	73.2	38.0	19.0	10.9	10.9	8.1	5.4	5.4
72.5°	15672.9	6824.7	143.8	54.3	27.1	13.6	8.1	8.1	8.1	5.4	5.4
75°	9453.1	3675.5	111.2	40.7	24.4	10.9	5.4	8.1	10.9	8.1	5.4
77.5°	3482.9	1250.5	86.8	32.6	19.0	10.9	5.4	5.4	10.9	8.1	8.1
80°	854.4	325.5	62.4	27.1	19.0	10.9	5.4	5.4	10.9	10.9	10.9
82.5°	396.0	138.3	43.4	24.4	19.0	10.9	5.4	5.4	8.1	10.9	10.9
85°	227.9	65.1	35.3	27.1	19.0	10.9	5.4	5.4	8.1	10.9	10.9
87.5°	92.2	32.6	32.6	27.1	21.7	13.6	5.4	5.4	5.4	8.1	8.1
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)