

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: P456984

Luminaire Tested: **GALN-SA8B-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38009 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

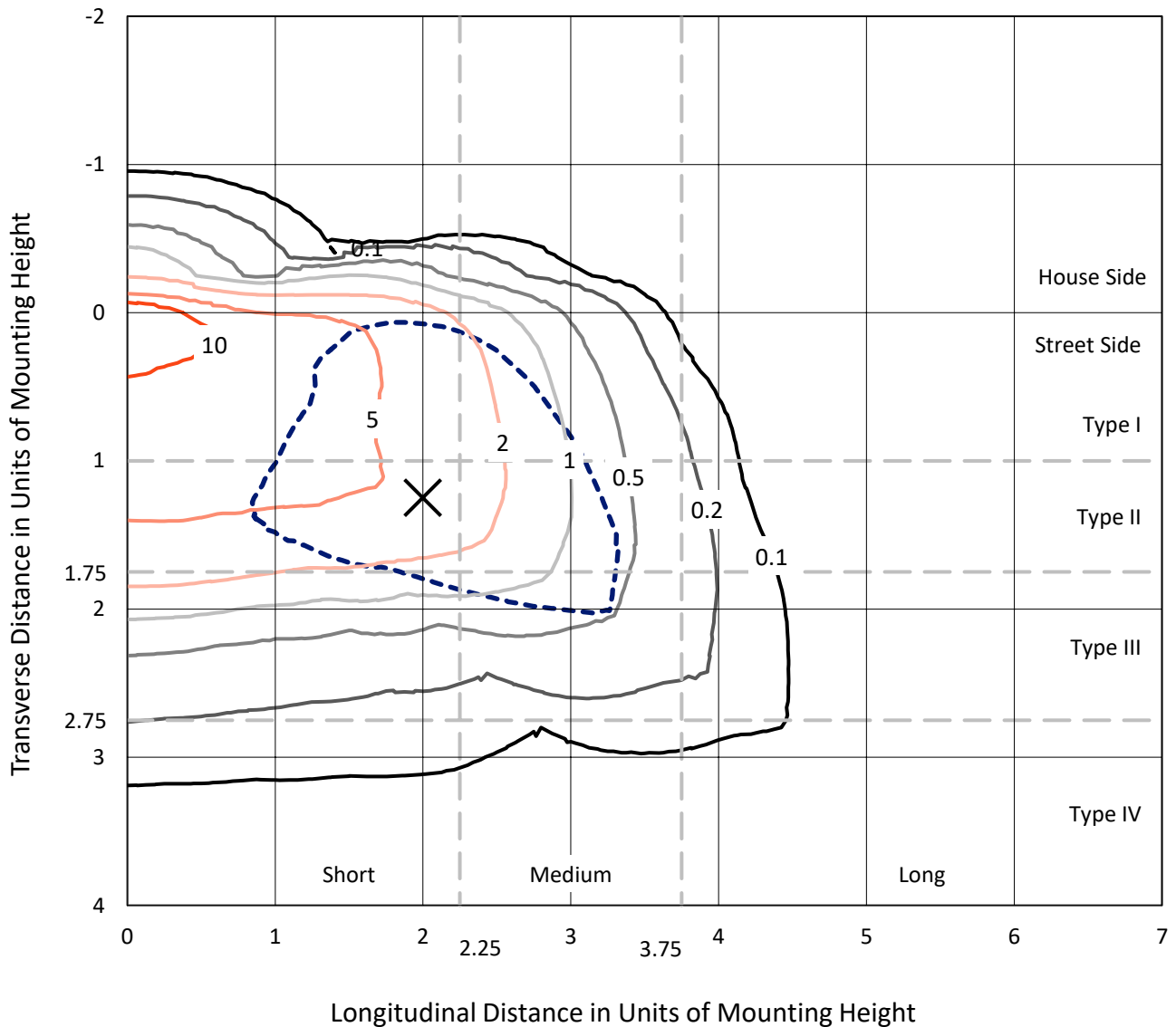
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

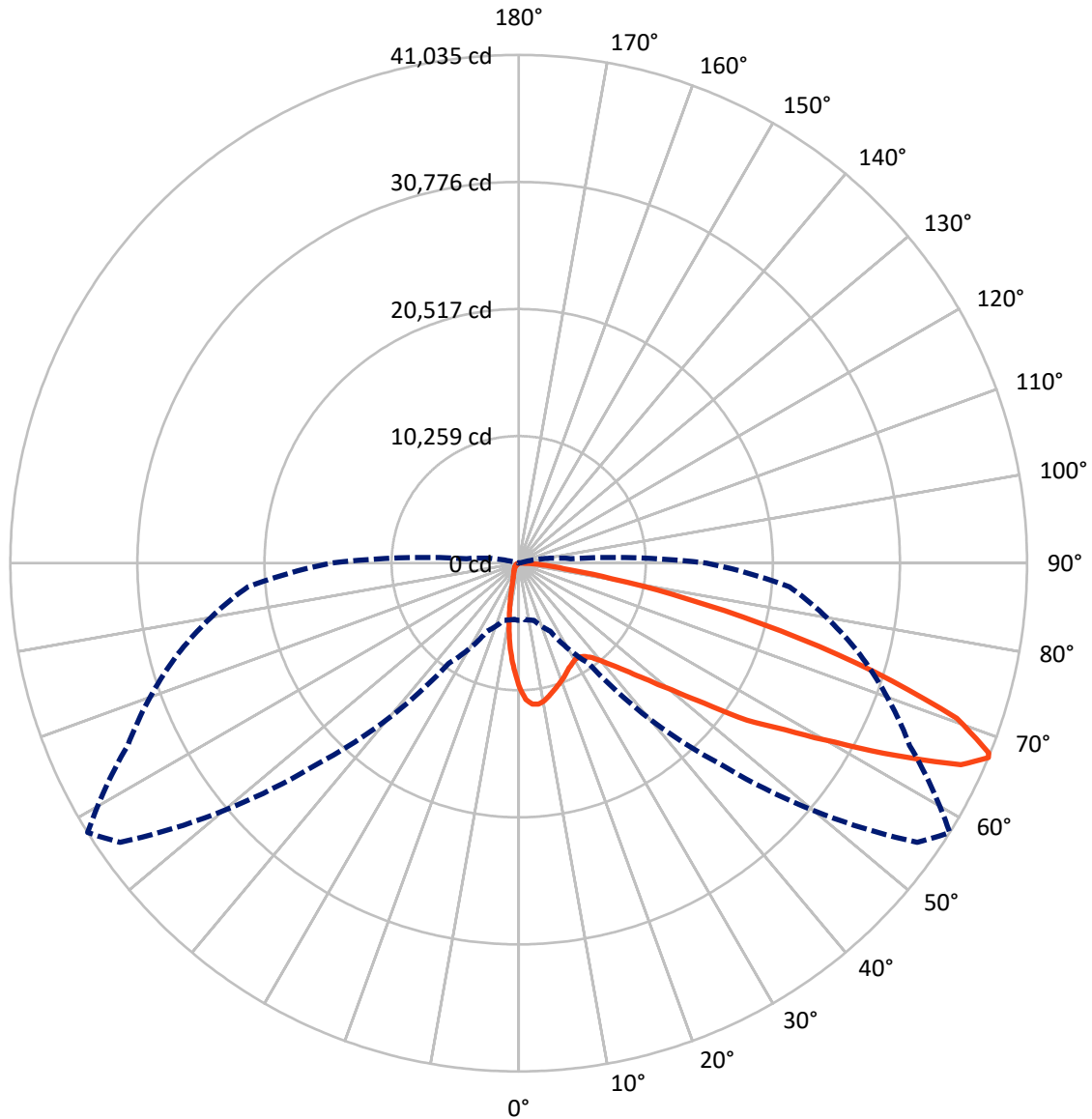
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2743.0	0.0	2743.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	35266.0	0.0	35266.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	38009.0	0.0	38009.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	817.6	2.2
10°-20°	1765.9	4.6
20°-30°	2392.9	6.3
30°-40°	3318.8	8.7
40°-50°	5293.1	13.9
50°-60°	9149.6	24.1
60°-70°	10451.7	27.5
70°-80°	4357.4	11.5
80°-90°	462.0	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°	38009.0	100.0
0°-180°	38009.0	100.0

Coefficient of Utilization



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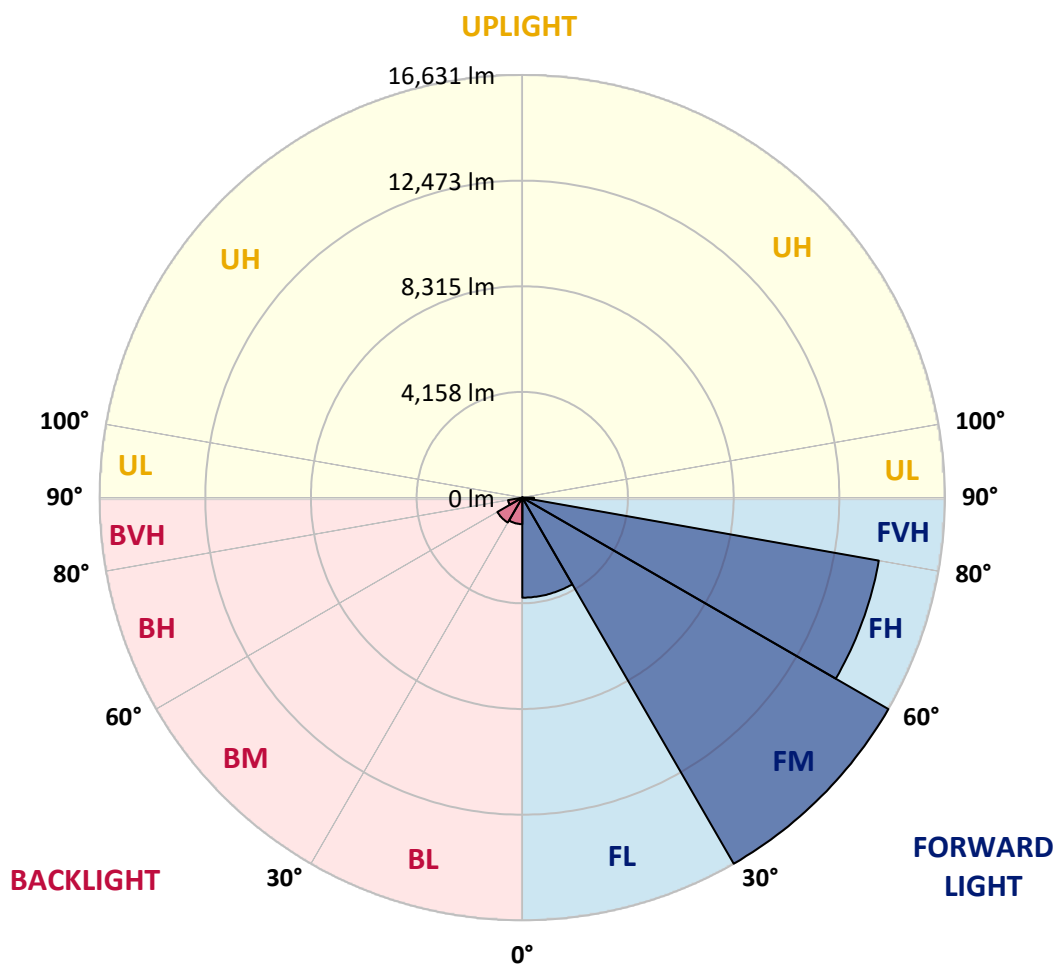
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3934.8	10.4			
FM	(30°-60°)	16630.5	43.8			
FH	(60°-80°)	14242.0	37.5			G5
FVH	(80°-90°)	458.7	1.2			G3/500
BL	(0°-30°)	1041.6	2.7	B3/2500		
BM	(30°-60°)	1131.0	3.0	B2/2500		
BH	(60°-80°)	567.1	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10075.8	10075.8	10075.8	10075.8	10075.8	10075.8	10075.8	10075.8	10075.8	10075.8	10075.8
2.5°	11693.8	11711.5	11645.5	11592.2	11455.0	11307.7	11112.1	11008.0	10830.2	10522.9	10182.5
5°	11968.1	11990.9	11980.8	11968.1	11914.7	11772.5	11523.6	11432.2	11170.5	10670.2	10055.5
7.5°	11358.5	11442.3	11452.5	11551.5	11645.5	11658.2	11564.2	11495.6	11254.4	10667.6	9829.5
10°	10550.8	10606.7	10688.0	10802.3	11028.3	11216.3	11307.7	11297.5	11157.8	10588.9	9565.3
12.5°	9735.5	9766.0	9890.4	10086.0	10362.8	10682.9	10926.7	10975.0	10977.5	10494.9	9344.3
15°	9034.5	9021.8	9118.3	9344.3	9732.9	10134.3	10571.1	10647.3	10769.2	10403.5	9138.6
17.5°	8435.1	8501.1	8516.3	8765.2	9123.4	9644.1	10200.3	10334.9	10578.7	10324.7	8968.4
20°	8064.2	8099.8	8132.8	8272.5	8595.1	9143.7	9852.3	10037.7	10400.9	10253.6	8777.9
22.5°	7955.0	7977.9	7949.9	7993.1	8221.7	8709.4	9473.9	9720.2	10230.8	10187.6	8623.0
25°	8038.8	8061.7	7995.6	7944.8	8023.6	8356.3	9108.1	9407.8	10093.6	10174.9	8506.2
27.5°	8242.0	8285.2	8193.8	8102.3	8056.6	8165.8	8821.1	9169.1	9999.6	10235.9	8452.8
30°	8559.5	8584.9	8516.3	8404.6	8300.4	8191.2	8671.3	9004.0	9974.2	10378.1	8447.8
32.5°	8904.9	8958.3	8920.2	8846.5	8711.9	8452.8	8714.4	9009.1	10035.2	10583.8	8511.3
35°	9331.6	9392.6	9428.2	9412.9	9240.2	8917.6	8988.8	9237.7	10197.8	10962.3	8684.0
37.5°	9750.7	9804.1	10004.7	10073.3	9920.9	9616.1	9522.1	9687.2	10555.9	11457.5	8996.4
40°	10230.8	10301.9	10583.8	10845.4	10771.8	10451.7	10279.0	10416.2	11104.5	12204.3	9588.2
42.5°	10690.5	10817.5	11246.7	11709.0	11777.6	11419.5	11305.2	11350.9	11917.3	13278.7	10413.6
45°	11343.3	11462.6	12016.3	12643.7	12966.3	12686.9	12570.0	12562.4	13032.3	14789.9	11752.2
47.5°	12285.6	12392.2	13045.0	13664.7	14238.8	14276.9	14055.9	14132.1	14434.3	16557.7	13393.0
50°	13441.2	13692.7	14121.9	14767.1	15534.1	16153.8	16222.4	16120.8	16379.9	18604.9	15363.9
52.5°	15120.1	15216.6	15610.3	16141.2	17040.3	18091.8	18907.1	18767.4	18686.1	20555.5	17355.2
55°	16372.3	16501.8	17113.9	17842.9	19161.1	20547.9	22315.7	22363.9	21337.8	22430.0	19303.3
57.5°	15993.8	16191.9	17119.0	18584.5	21482.6	24017.4	25333.1	25366.1	23791.4	24251.1	21502.9
60°	14050.8	14144.8	15473.2	17428.9	21680.7	27776.5	29612.9	29346.2	26288.1	26288.1	23445.9
62.5°	9964.1	10111.4	11188.3	14066.0	19580.2	29082.0	34738.4	34187.2	29727.1	28236.2	24604.1
65°	6367.6	6225.3	6939.0	8879.5	14586.7	27154.2	39201.0	39234.0	32963.0	29016.0	23971.7
67°	4612.5	4556.6	4762.3	6070.4	9890.4	22826.2	39295.0	41034.8	34822.2	28523.2	21949.9
67.5°	4218.8	4262.0	4411.8	5476.1	8986.2	20771.4	38868.3	40928.2	35241.3	28226.1	21218.4
70°	3197.8	3124.1	3286.6	3873.4	5387.2	13103.4	33435.4	37537.4	34720.6	25277.2	16953.9
72.5°	2352.0	2344.3	2570.4	3167.3	4147.7	6979.7	25099.4	30098.0	28365.8	19247.5	10675.3
75°	1587.4	1658.6	2019.2	2646.6	3759.1	4526.1	17111.4	21835.6	19691.9	10929.2	4363.6
77.5°	904.2	909.3	1300.4	2125.9	3375.5	3642.2	10139.3	13911.1	10423.8	3634.6	1295.4
80°	391.1	429.2	645.1	1544.3	2799.0	3225.7	5813.9	7645.1	4216.3	769.6	419.1
82.5°	144.8	170.2	284.5	949.9	2042.1	2656.7	3512.7	3649.9	1430.0	271.8	261.6
85°	0.0	5.1	104.1	444.5	1064.2	1186.1	2346.9	2164.0	632.4	129.5	170.2
87.5°	0.0	0.0	0.0	45.7	139.7	441.9	729.0	812.8	152.4	45.7	40.6
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°	10075.8	10075.8	10075.8	10075.8	10075.8	10075.8	10075.8	10075.8	10075.8	10075.8	10075.8
2.5°	9999.6	9834.5	9420.5	9006.5	8699.2	8442.7	8056.6	7845.8	7734.0	7568.9	7579.1
5°	9748.2	9412.9	8684.0	7929.6	7320.0	6725.7	6014.5	5727.5	5486.2	5349.1	5257.6
7.5°	9374.8	8879.5	7800.1	6794.3	5857.0	4818.2	4038.5	3517.8	3167.3	3037.7	2913.3
10°	8965.9	8308.1	6903.5	5509.1	4208.6	3136.8	2476.4	1998.9	1828.7	1671.3	1686.5
12.5°	8587.4	7787.4	6080.6	4348.3	2948.8	1993.8	1554.4	1358.9	1303.0	1285.2	1285.2
15°	8277.6	7289.6	5196.7	3268.9	2021.8	1432.5	1244.6	1191.2	1170.9	1165.8	1165.8
17.5°	7947.4	6817.1	4399.1	2415.5	1470.6	1198.8	1135.3	1099.8	1092.2	1087.1	1087.1
20°	7652.8	6342.2	3642.2	1798.3	1188.7	1079.5	1038.8	1016.0	1008.3	1003.3	1005.8
22.5°	7373.4	5920.5	2931.1	1358.9	1046.4	982.9	942.3	919.4	904.2	891.5	894.0
25°	7124.5	5514.2	2357.0	1112.5	942.3	886.4	845.8	812.8	779.8	764.5	762.0
27.5°	6949.2	5158.6	1836.4	952.5	848.3	787.4	736.6	695.9	652.8	629.9	624.8
30°	6804.4	4797.9	1452.8	840.7	754.4	695.9	632.4	574.0	528.3	505.4	495.3
32.5°	6710.5	4455.0	1145.5	749.3	675.6	604.5	533.4	475.0	424.2	401.3	396.2
35°	6695.2	4168.0	937.2	673.1	604.5	528.3	454.6	391.1	348.0	325.1	320.0
37.5°	6804.4	3947.0	784.8	612.1	546.1	462.3	381.0	322.6	284.5	266.7	264.2
40°	7096.5	3807.3	680.7	561.3	492.7	401.3	325.1	274.3	236.2	218.4	218.4
42.5°	7652.8	3812.4	612.1	513.1	439.4	342.9	276.9	228.6	195.6	180.3	175.3
45°	8521.4	3985.1	553.7	464.8	388.6	297.2	236.2	188.0	154.9	142.2	142.2
47.5°	9684.7	4328.0	502.9	416.5	342.9	254.0	200.7	152.4	124.5	111.8	111.8
50°	11206.1	4879.2	459.7	375.9	304.8	218.4	162.6	124.5	96.5	86.4	83.8
52.5°	12796.1	5559.9	408.9	340.3	261.6	185.4	132.1	96.5	73.7	66.0	63.5
55°	14551.2	6225.3	360.7	304.8	213.4	154.9	104.1	76.2	53.3	45.7	45.7
57.5°	16321.5	6878.1	302.2	254.0	167.6	114.3	81.3	55.9	35.6	27.9	27.9
60°	17820.0	7088.9	256.5	205.7	127.0	81.3	58.4	35.6	20.3	12.7	12.7
62.5°	18025.8	6377.7	215.9	157.5	91.4	55.9	30.5	20.3	7.6	5.1	5.1
65°	16908.2	5181.4	180.3	119.4	61.0	27.9	12.7	7.6	2.5	0.0	0.0
67°	15150.6	4201.0	147.3	88.9	43.2	17.8	7.6	2.5	0.0	0.0	0.0
67.5°	14701.0	4005.4	142.2	83.8	38.1	15.2	5.1	2.5	0.0	0.0	0.0
70°	11536.3	2999.6	101.6	50.8	22.9	10.2	0.0	0.0	0.0	0.0	0.0
72.5°	7170.2	1696.7	73.7	30.5	15.2	5.1	0.0	0.0	0.0	0.0	0.0
75°	2710.1	594.3	50.8	20.3	10.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	843.3	226.1	30.5	15.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	284.5	86.4	20.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	175.3	35.6	12.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	109.2	15.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.3	5.1	2.5	0.0	0.0	0.0	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)