

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: P459439

Luminaire Tested: **GALN-SA8D-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459439
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-SA8D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA 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: 42096 lumens
Efficiency: N/A
Efficacy: 85.4 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

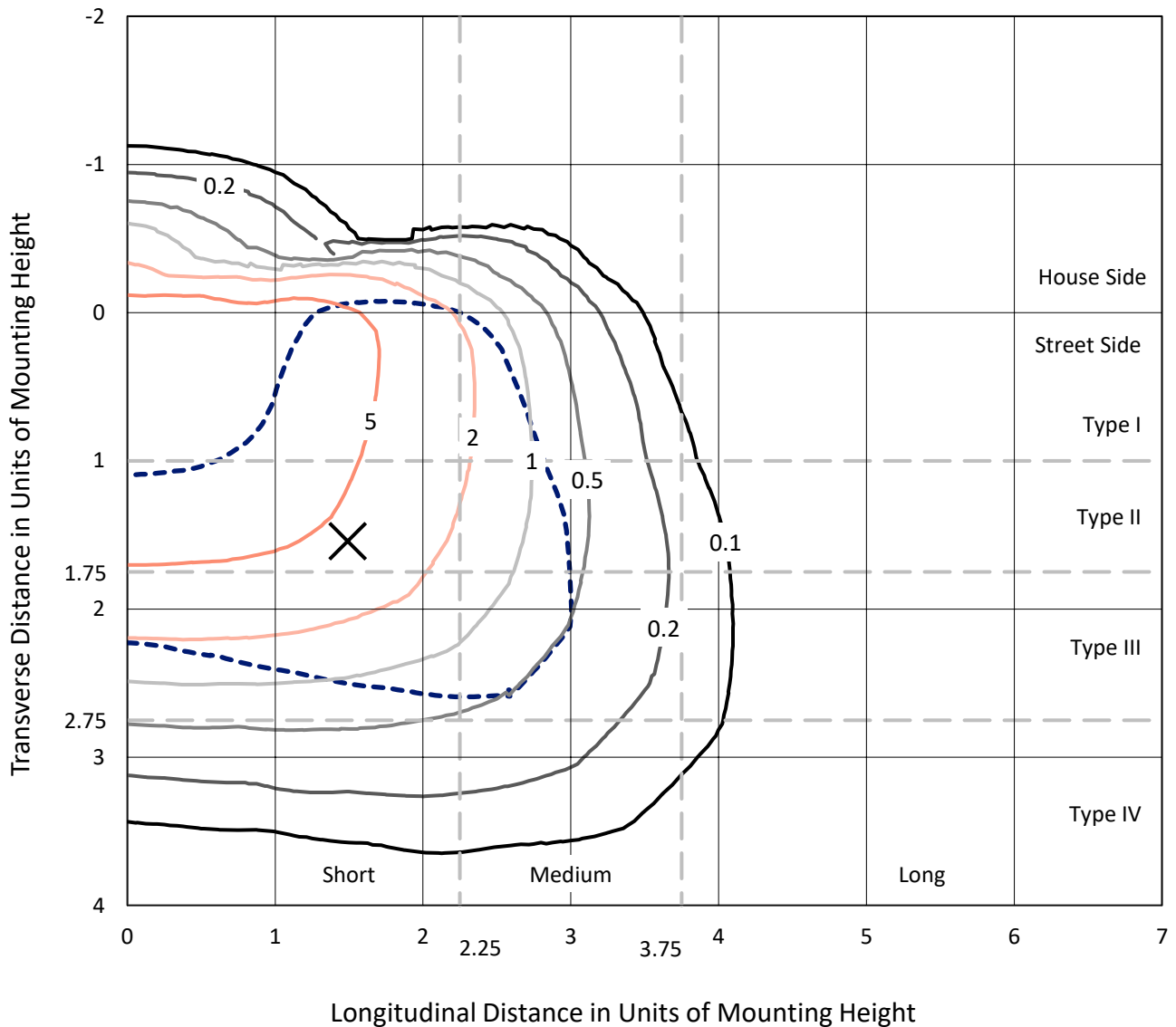
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

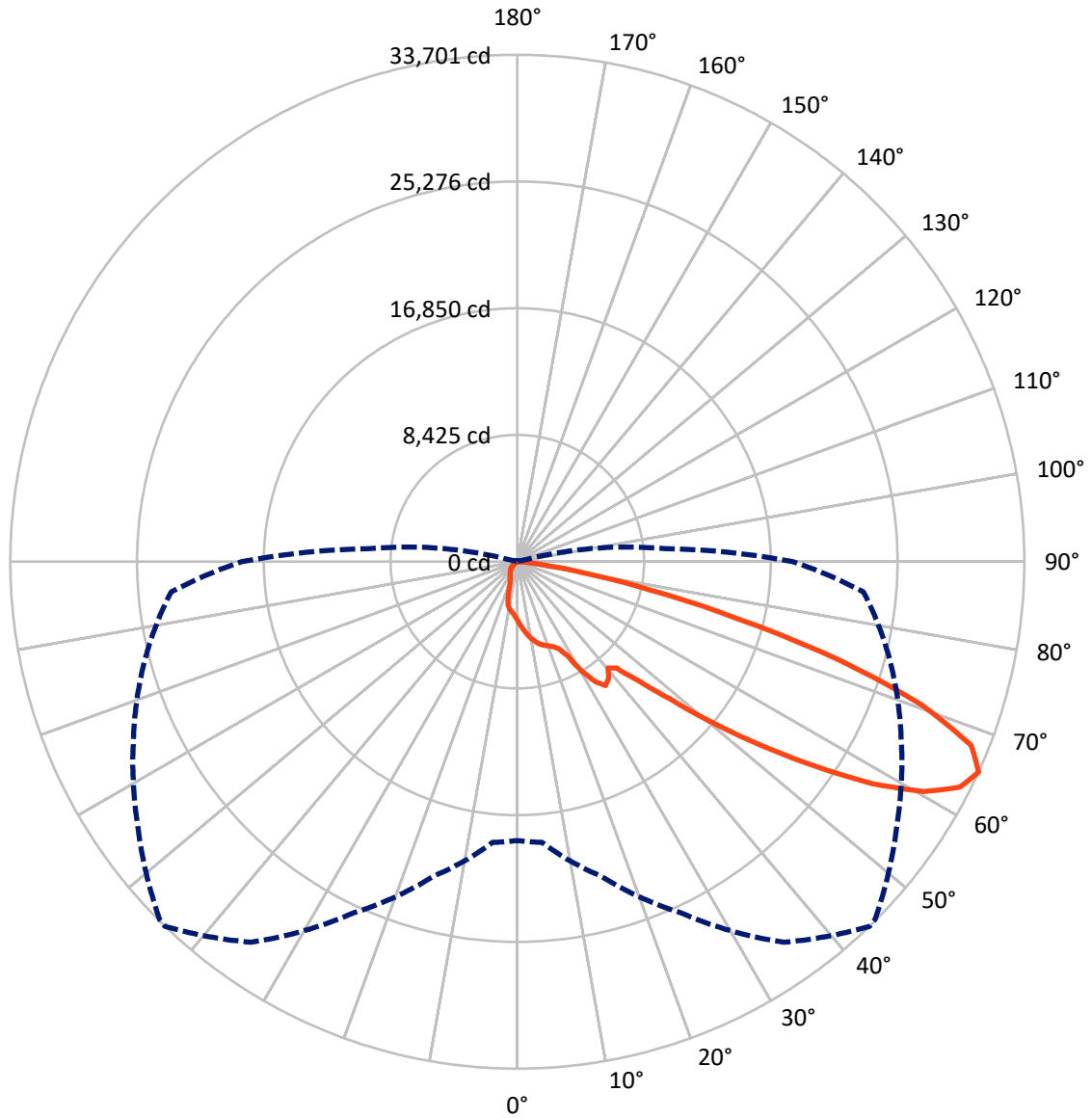
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	3878.5	0.0	3878.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	38217.5	0.0	38217.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	42096.0	0.0	42096.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.7	0.9
10°-20°	1172.8	2.8
20°-30°	1988.6	4.7
30°-40°	3306.4	7.9
40°-50°	5773.1	13.7
50°-60°	11278.6	26.8
60°-70°	13085.8	31.1
70°-80°	4765.2	11.3
80°-90°	335.7	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°	42096.0	100.0
0°-180°	42096.0	100.0



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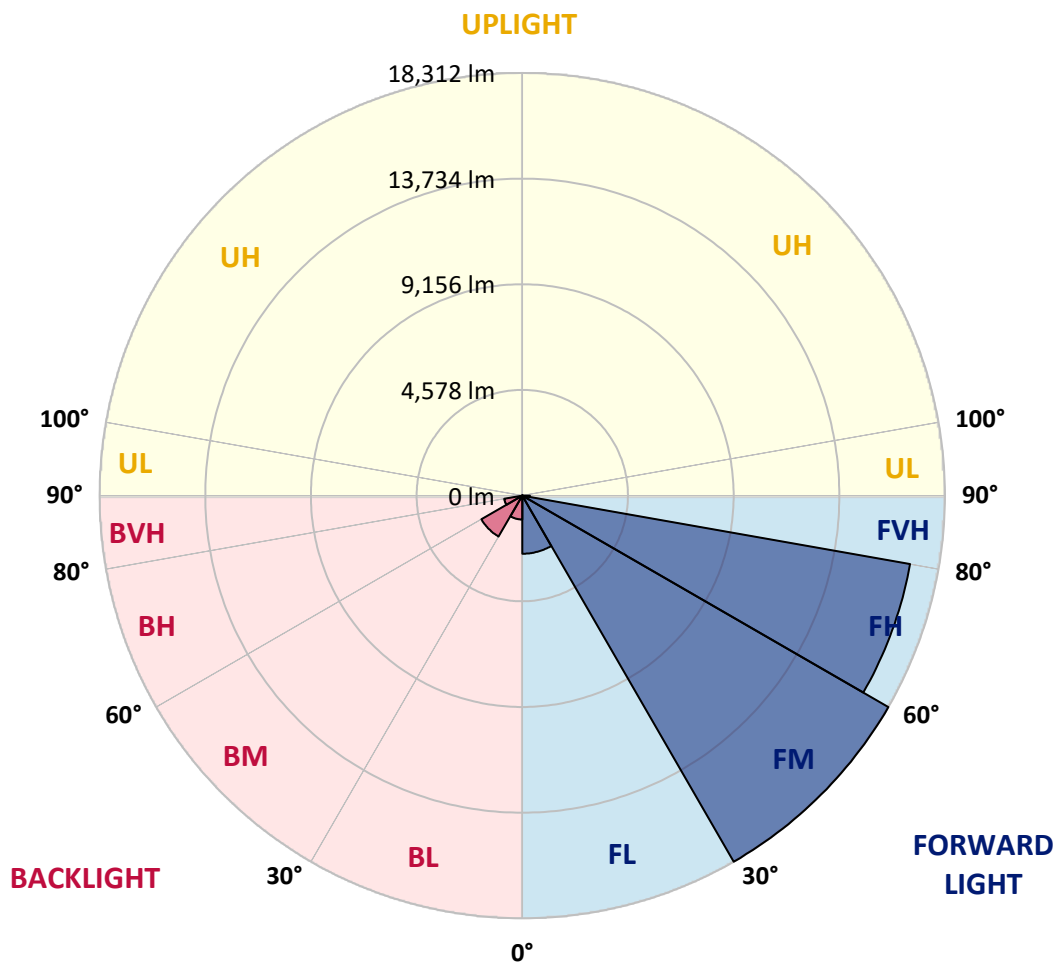
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2517.7	6.0			
FM	(30°-60°)	18311.8	43.5			
FH	(60°-80°)	17056.7	40.5			G5
FVH	(80°-90°)	331.2	0.8			G3/500
BL	(0°-30°)	1033.4	2.5	B3/2500		
BM	(30°-60°)	2046.3	4.9	B2/2500		
BH	(60°-80°)	794.3	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.6	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°	44°	45°	55°	65°	75°	85°
0°	3917.9	3917.9	3917.9	3917.9	3917.9	3917.9	3917.9	3917.9	3917.9	3917.9	3917.9
2.5°	4410.0	4390.7	4381.1	4329.6	4291.0	4242.8	4242.8	4181.6	4110.9	4033.7	3962.9
5°	4902.2	4870.0	4828.2	4783.2	4693.1	4564.4	4564.4	4435.8	4287.8	4155.9	4011.2
7.5°	5375.0	5346.1	5275.3	5188.5	5040.5	4905.4	4895.7	4709.2	4532.3	4332.8	4127.0
10°	5790.0	5767.5	5706.3	5539.1	5384.7	5207.8	5204.5	4995.5	4789.6	4545.1	4291.0
12.5°	6079.5	6082.7	6002.3	5841.4	5642.0	5474.7	5461.9	5256.0	5040.5	4776.7	4464.7
15°	6285.3	6285.3	6201.7	6021.6	5841.4	5693.5	5680.6	5500.5	5278.5	4992.2	4654.5
17.5°	6343.2	6362.5	6272.5	6111.6	5966.9	5838.2	5835.0	5683.8	5506.9	5230.3	4847.5
20°	6320.7	6340.0	6269.3	6143.8	6044.1	5970.1	5960.5	5899.3	5735.3	5474.7	5053.4
22.5°	6272.5	6291.8	6240.3	6166.3	6118.1	6140.6	6124.5	6176.0	6089.1	5773.9	5297.8
25°	6282.1	6301.4	6262.8	6221.0	6262.8	6401.1	6443.0	6664.9	6587.7	6153.5	5561.6
27.5°	6584.5	6623.1	6568.4	6587.7	6735.7	7057.3	7137.8	7520.5	7179.6	6636.0	5973.3
30°	7256.8	7231.0	7128.1	7221.4	7736.0	8418.0	8395.5	8334.3	7800.4	7192.4	6462.3
32.5°	7867.9	7845.4	7839.0	8241.1	9173.9	9505.2	9489.1	8897.3	8356.9	7829.3	6944.8
35°	8115.6	8028.8	8009.5	8984.1	10544.2	10106.7	10007.0	9128.9	9032.4	8524.1	7436.9
37.5°	8861.9	8800.8	8501.6	9106.3	9997.4	9852.6	9775.4	9527.7	9752.9	9138.5	7993.4
40°	10399.4	10229.0	9958.8	9366.9	9222.1	9283.3	9360.5	10039.2	10605.3	9978.1	8736.4
42.5°	12310.1	12271.5	11769.7	10666.4	9582.4	9666.0	9765.8	11107.1	11830.8	11242.2	9949.1
45°	14603.6	14658.3	13934.5	12631.8	11210.0	11280.8	11425.5	12683.3	13490.6	13207.6	11856.6
47.5°	16688.0	16646.2	16401.7	15047.5	13735.1	13577.5	13812.3	14706.5	15787.3	15832.4	14224.0
50°	18785.2	19007.2	18643.7	18113.0	17138.3	16807.0	16720.2	17157.6	18804.5	18589.0	17067.6
52.5°	21799.3	21915.1	21233.1	21098.0	21320.0	20245.6	20158.8	20264.9	21738.1	20998.3	19197.0
55°	23693.9	23626.3	23372.2	24427.3	25305.4	23964.1	23854.7	23426.9	24173.1	22699.9	21246.0
57.5°	24292.2	24388.7	24980.5	26888.0	28966.0	27827.3	27627.8	26411.9	25929.4	24285.7	23130.9
60°	24025.2	24202.1	25479.1	28316.2	31198.3	31027.8	30857.3	28814.8	27190.4	25611.0	24453.0
62.5°	22124.1	22371.8	24414.4	28062.1	31954.2	33018.9	32806.6	30313.7	28029.9	26254.3	24684.6
65°	18540.8	18724.1	21657.7	25755.7	30879.9	33700.9	33623.7	30783.4	28161.8	25665.7	23098.8
67.5°	13217.2	13841.3	16559.3	21706.0	27701.8	32536.4	32668.3	30220.4	26923.4	23121.3	19129.4
70°	8308.6	8733.2	10682.5	15539.6	22207.8	28544.6	28978.8	27643.9	23365.8	18022.9	12805.5
72.5°	3962.9	4278.1	5667.7	9836.5	15674.7	22458.7	22802.8	22693.5	18067.9	11354.8	6607.0
75°	1765.9	1885.0	2705.2	5021.2	10119.6	15095.7	15986.8	16134.7	11290.4	5555.2	2570.1
77.5°	900.7	903.9	1267.4	2431.8	5053.4	9006.6	9183.5	9701.4	6121.3	2447.9	894.2
80°	479.3	511.4	672.3	1148.3	2621.6	4435.8	4413.2	4850.7	2714.9	1199.8	299.1
82.5°	215.5	238.0	379.6	601.5	1280.2	1682.3	1814.2	1984.7	1164.4	765.6	131.9
85°	64.3	77.2	186.6	302.4	463.2	485.7	543.6	701.2	659.4	543.6	67.5
87.5°	9.6	9.6	77.2	83.6	67.5	86.8	90.1	99.7	212.3	199.4	35.4
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°	3917.9	3917.9	3917.9	3917.9	3917.9	3917.9	3917.9	3917.9	3917.9	3917.9	3917.9
2.5°	3924.3	3901.8	3821.4	3753.8	3695.9	3660.6	3618.7	3593.0	3580.1	3570.5	3573.7
5°	3940.4	3885.7	3747.4	3638.0	3554.4	3464.3	3403.2	3367.8	3351.8	3326.0	3326.0
7.5°	4030.5	3943.6	3750.6	3583.4	3438.6	3316.4	3200.6	3158.8	3129.8	3123.4	3116.9
10°	4159.1	4049.8	3786.0	3554.4	3348.5	3181.3	3017.2	2872.5	2759.9	2692.3	2682.7
12.5°	4320.0	4162.3	3840.7	3535.1	3271.3	2975.4	2541.2	2248.4	2052.2	1991.1	2000.8
15°	4467.9	4297.4	3895.4	3519.0	3129.8	2467.2	1975.0	1640.5	1540.8	1531.1	1534.3
17.5°	4644.8	4442.2	3959.7	3496.5	2740.6	1885.0	1466.8	1376.7	1396.0	1428.2	1425.0
20°	4828.2	4596.6	4036.9	3361.4	2187.3	1418.5	1296.3	1306.0	1334.9	1363.9	1370.3
22.5°	5024.4	4773.5	4127.0	3036.5	1669.4	1235.2	1228.8	1241.6	1270.6	1302.7	1309.2
25°	5294.6	4995.5	4194.5	2611.9	1264.1	1141.9	1154.8	1177.3	1203.0	1238.4	1244.8
27.5°	5642.0	5294.6	4229.9	2058.7	1093.7	1058.3	1061.5	1093.7	1125.8	1158.0	1158.0
30°	6092.3	5651.7	4159.1	1556.9	1010.0	977.9	965.0	984.3	1026.1	1058.3	1061.5
32.5°	6494.4	5989.4	3972.6	1190.2	948.9	903.9	871.7	874.9	891.0	910.3	913.5
35°	6896.5	6317.5	3654.1	1000.4	884.6	833.1	784.9	759.1	746.3	736.6	746.3
37.5°	7411.2	6726.0	3229.5	910.3	829.9	765.6	698.0	643.3	598.3	569.3	575.8
40°	8073.8	7292.2	2727.7	852.4	778.4	701.2	611.2	540.4	463.2	437.5	424.6
42.5°	9167.5	8151.0	2200.2	804.2	727.0	633.7	521.1	424.6	353.8	328.1	334.5
45°	10894.8	9235.0	1695.2	752.7	675.5	559.7	437.5	334.5	276.6	263.8	270.2
47.5°	13185.1	10637.5	1306.0	694.8	611.2	479.3	344.2	263.8	228.4	225.2	221.9
50°	15340.2	11943.4	1090.4	630.5	534.0	398.9	283.1	221.9	199.4	196.2	196.2
52.5°	17289.5	12879.5	887.8	556.5	450.3	328.1	238.0	196.2	176.9	167.3	167.3
55°	19023.3	13490.6	720.5	466.4	353.8	260.5	205.9	176.9	154.4	141.5	138.3
57.5°	20332.5	13564.6	540.4	373.1	263.8	202.6	176.9	154.4	128.7	112.6	106.1
60°	20892.2	12924.5	398.9	283.1	196.2	160.8	141.5	125.4	96.5	80.4	77.2
62.5°	20329.2	11679.7	295.9	215.5	151.2	119.0	99.7	93.3	67.5	48.2	45.0
65°	18312.4	9881.6	234.8	164.0	112.6	86.8	64.3	61.1	41.8	22.5	19.3
67.5°	14671.1	7739.3	186.6	122.2	80.4	57.9	41.8	38.6	22.5	6.4	6.4
70°	9540.6	4947.2	151.2	90.1	51.5	38.6	25.7	19.3	12.9	3.2	0.0
72.5°	4718.8	2312.8	122.2	70.8	35.4	19.3	9.6	6.4	9.6	0.0	0.0
75°	1830.3	823.5	90.1	48.2	19.3	9.6	6.4	0.0	3.2	0.0	0.0
77.5°	607.9	273.4	54.7	25.7	12.9	6.4	0.0	0.0	0.0	0.0	0.0
80°	225.2	106.1	28.9	16.1	6.4	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	90.1	41.8	19.3	12.9	6.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.0	25.7	12.9	9.6	6.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	32.2	19.3	12.9	9.6	6.4	3.2	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)