

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: P456025

Luminaire Tested: **GALN-SA7B-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456025
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-SA7B-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA 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: 29541 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

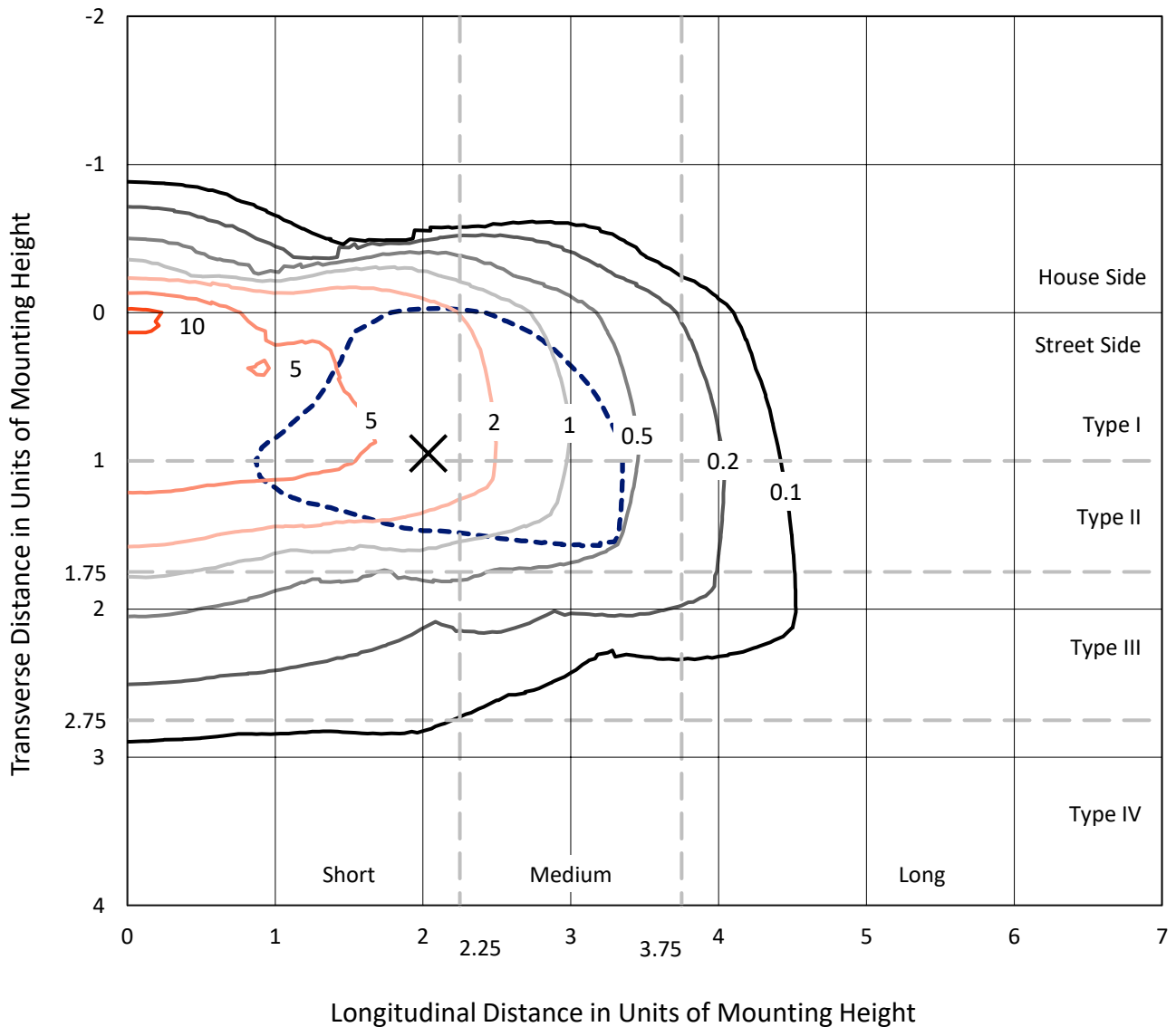
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

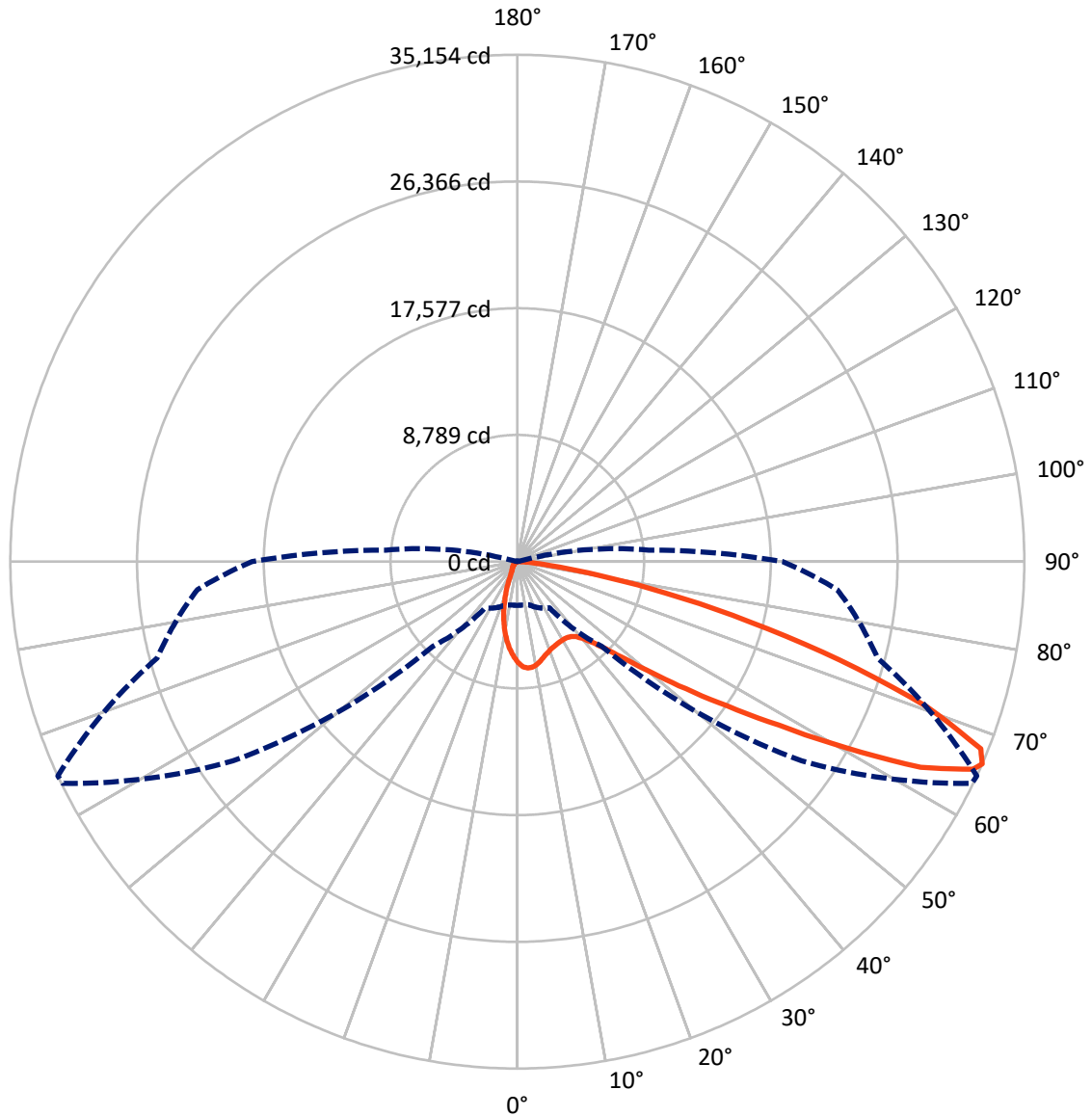
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	3055.0	0.0	3055.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	26486.1	0.0	26486.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	29541.0	0.0	29541.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.9	1.9
10°-20°	1248.3	4.2
20°-30°	1788.2	6.1
30°-40°	2611.8	8.8
40°-50°	4379.6	14.8
50°-60°	7308.9	24.7
60°-70°	7758.1	26.3
70°-80°	3513.6	11.9
80°-90°	359.5	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°	29541.0	100.0
0°-180°	29541.0	100.0



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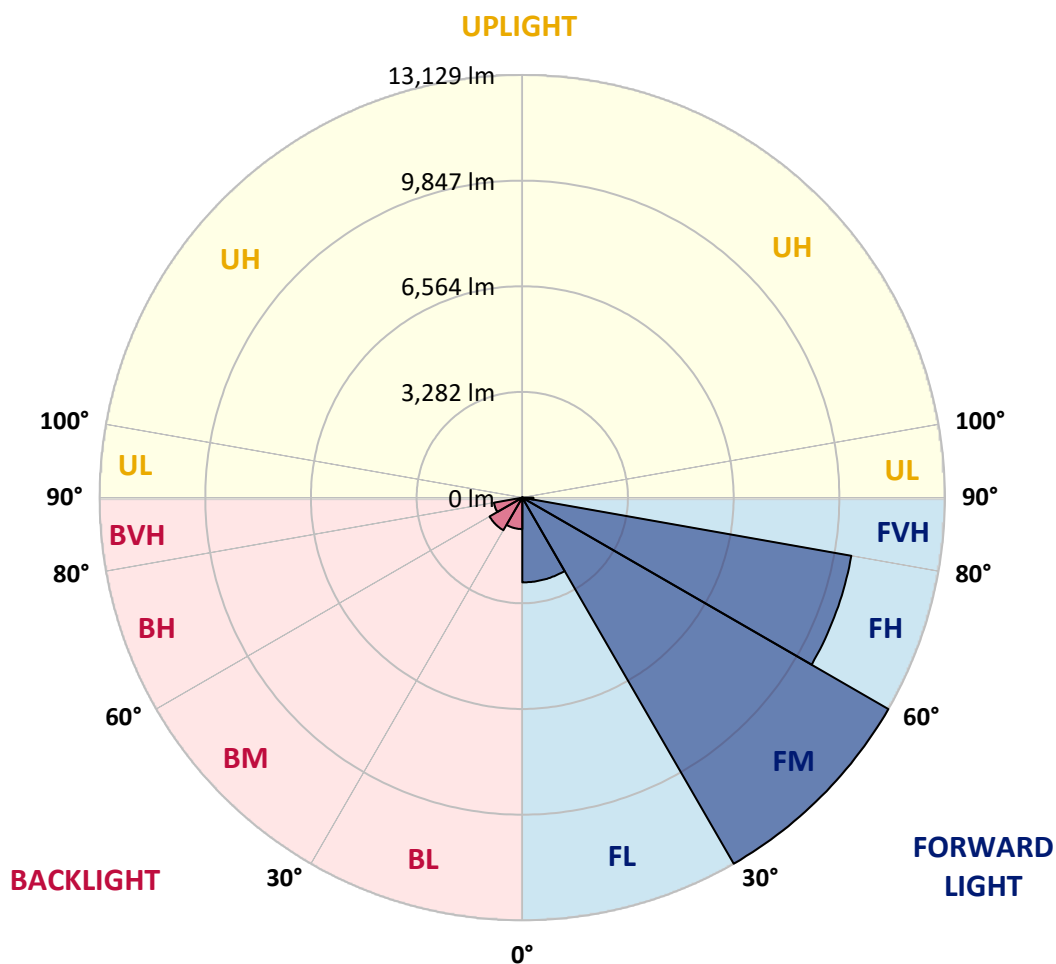
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2632.2	8.9			
FM (30°-60°)	13128.7	44.4			
FH (60°-80°)	10377.1	35.1			G4/12000
FVH (80°-90°)	348.1	1.2			G3/500
BL (0°-30°)	977.2	3.3	B2/1000		
BM (30°-60°)	1171.6	4.0	B2/2500		
BH (60°-80°)	894.7	3.0	B2/1000		G2/1000
BVH (80°-90°)	11.5	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3
2.5°	7382.4	7390.3	7400.3	7414.3	7424.3	7394.3	7352.4	7304.5	7294.6	7192.8	7069.1
5°	6987.3	6999.3	7087.1	7135.0	7242.7	7340.5	7402.3	7410.3	7406.3	7310.5	7113.0
7.5°	6424.6	6458.6	6544.4	6628.2	6829.7	7015.2	7234.7	7388.3	7398.3	7372.4	7127.0
10°	5967.7	5989.7	6033.6	6199.2	6366.8	6650.1	6957.4	7246.7	7270.6	7374.4	7115.0
12.5°	5610.6	5642.5	5696.4	5824.1	6025.6	6293.0	6642.1	7031.2	7081.1	7336.5	7081.1
15°	5361.2	5377.2	5431.0	5556.7	5752.3	5999.7	6352.8	6805.7	6849.6	7286.6	7075.1
17.5°	5243.5	5261.4	5299.3	5399.1	5560.7	5790.2	6135.3	6624.2	6680.0	7254.7	7097.0
20°	5275.4	5291.4	5293.4	5345.2	5455.0	5648.5	5975.7	6454.6	6526.4	7234.7	7133.0
22.5°	5457.0	5459.0	5435.0	5411.1	5449.0	5588.6	5878.0	6346.8	6420.7	7230.7	7174.9
25°	5728.3	5734.3	5694.4	5610.6	5534.8	5606.6	5856.0	6277.0	6342.8	7220.7	7200.8
27.5°	6103.4	6101.4	6089.4	5949.8	5734.3	5686.4	5874.0	6239.1	6295.0	7192.8	7210.8
30°	6628.2	6612.2	6586.3	6428.6	6099.4	5879.9	5949.8	6215.1	6267.0	7152.9	7184.8
32.5°	7144.9	7204.8	7200.8	7051.2	6640.1	6225.1	6107.4	6247.1	6285.0	7127.0	7146.9
35°	7747.5	7745.5	7899.1	7843.3	7362.4	6666.1	6376.8	6352.8	6382.7	7144.9	7129.0
37.5°	8306.2	8358.0	8597.5	8655.3	8216.4	7288.6	6757.9	6580.3	6590.3	7266.6	7172.9
40°	9002.5	9102.2	9459.4	9652.9	9265.9	8212.4	7320.5	6997.3	6999.3	7565.9	7338.5
42.5°	9900.3	10058.0	10391.2	10714.4	10506.9	9305.8	8164.5	7657.7	7653.7	8092.7	7717.6
45°	10991.7	11101.5	11480.6	11993.3	11861.7	10832.1	9393.6	8681.3	8629.4	8956.6	8390.0
47.5°	11933.5	12083.1	12468.2	13052.8	13651.4	12695.7	10862.0	10087.9	10054.0	10331.3	9543.2
50°	12344.5	12476.2	12881.2	13701.3	15151.8	15141.8	13048.8	12141.0	12083.1	12232.8	11326.9
52.5°	11893.6	12017.3	12426.3	13447.9	15858.1	18122.7	16217.2	14716.8	14647.0	14455.5	13457.8
55°	10349.3	10451.0	11055.6	12228.8	15586.8	20109.9	20582.8	17899.2	17627.9	16883.7	15870.1
57.5°	8240.3	8188.4	8563.5	9926.3	13994.6	20776.4	25064.1	21863.8	21378.9	18982.6	17911.2
60°	5710.4	5870.0	6021.6	6919.5	10522.9	19621.1	27851.4	26847.8	26209.4	21047.7	19866.5
62.5°	4198.0	4303.7	4403.5	4818.5	6616.2	15666.6	28344.3	31967.6	31401.0	23240.5	21732.1
65°	3320.1	3328.0	3368.0	3777.0	4359.6	10187.7	25975.9	34854.7	34709.1	25351.4	22488.3
66°	3024.8	3026.8	3088.6	3527.6	3912.7	8296.2	24078.5	35074.2	35154.0	25858.2	22266.8
67.5°	2643.7	2635.7	2725.5	3170.4	3563.5	5981.7	20682.6	34184.3	34657.2	26247.3	21470.7
70°	2049.1	2039.1	2148.9	2659.6	3282.2	3990.5	13747.2	29351.9	30114.0	25451.2	18996.6
72.5°	1364.7	1372.7	1560.3	2099.0	3132.5	3513.6	8270.2	22328.6	23406.1	21017.8	14944.3
75°	796.1	810.1	1023.6	1560.3	2719.5	3350.0	4680.8	15922.0	16610.3	14513.3	9309.8
77.5°	417.0	423.0	572.6	1029.5	2085.0	3110.6	3118.5	10171.7	10494.9	7053.1	3685.2
80°	221.5	215.5	307.3	620.5	1434.6	2731.5	2530.0	5385.1	5598.6	2095.0	931.8
82.5°	83.8	91.8	163.6	407.0	848.0	1961.3	2178.8	2380.3	2306.5	460.9	391.1
85°	16.0	20.0	69.8	241.4	427.0	820.0	1606.2	1167.2	1081.4	173.6	225.5
87.5°	2.0	4.0	20.0	57.9	61.9	277.3	474.9	323.2	279.3	63.8	93.8
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°	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3
2.5°	7009.3	6955.4	6775.8	6598.2	6416.7	6253.1	6141.3	5959.8	5913.9	5848.0	5810.1
5°	6995.3	6869.6	6524.4	6147.3	5796.1	5417.1	5127.7	4848.4	4698.8	4623.0	4595.0
7.5°	6955.4	6755.9	6217.1	5626.6	5063.9	4497.3	4004.4	3629.3	3387.9	3222.3	3110.6
10°	6875.6	6600.2	5860.0	5047.9	4198.0	3449.8	2825.2	2350.4	1983.3	1867.5	1871.5
12.5°	6793.8	6426.6	5461.0	4405.5	3352.0	2408.2	1745.8	1370.7	1195.1	1137.3	1125.3
15°	6717.9	6261.0	5069.9	3783.0	2496.0	1560.3	1125.3	993.6	945.7	935.8	933.8
17.5°	6678.0	6107.4	4652.9	3070.7	1741.8	1059.5	901.8	865.9	852.0	842.0	838.0
20°	6644.1	5973.7	4253.8	2404.3	1191.2	867.9	808.1	774.2	750.2	740.2	734.2
22.5°	6620.2	5836.1	3840.8	1861.6	911.8	770.2	716.3	672.4	638.5	626.5	618.5
25°	6584.3	5684.4	3423.8	1360.7	768.2	684.4	622.5	570.6	526.7	504.8	500.8
27.5°	6532.4	5512.8	2966.9	1007.6	686.4	608.5	532.7	468.9	425.0	401.0	403.0
30°	6448.6	5333.3	2510.0	800.1	620.5	530.7	448.9	387.1	345.2	327.2	325.2
32.5°	6348.8	5115.8	2091.0	686.4	560.7	460.9	375.1	321.2	289.3	275.3	273.3
35°	6255.1	4896.3	1664.0	616.5	498.8	397.1	315.2	269.4	245.4	233.4	235.4
37.5°	6203.2	4700.8	1296.9	560.7	448.9	341.2	271.4	231.4	209.5	199.5	197.5
40°	6237.1	4541.1	1031.5	510.8	393.1	293.3	233.4	199.5	177.6	163.6	163.6
42.5°	6396.7	4471.3	832.0	462.9	341.2	253.4	203.5	171.6	147.6	133.7	135.7
45°	6883.6	4545.1	696.3	419.0	293.3	219.5	175.6	141.7	119.7	109.7	107.7
47.5°	7691.6	4822.5	602.6	373.1	251.4	187.6	147.6	117.7	95.8	87.8	85.8
50°	9104.2	5395.1	532.7	327.2	213.5	159.6	121.7	93.8	75.8	67.8	67.8
52.5°	11047.6	6644.1	482.8	275.3	179.6	135.7	99.8	75.8	59.9	53.9	51.9
55°	13078.7	7961.0	456.9	231.4	149.6	111.7	79.8	59.9	45.9	39.9	37.9
57.5°	15032.1	8994.5	427.0	187.6	119.7	85.8	61.9	45.9	31.9	27.9	25.9
60°	16905.6	9830.5	363.1	149.6	93.8	61.9	45.9	31.9	21.9	18.0	18.0
62.5°	18581.6	10317.3	285.3	119.7	71.8	43.9	29.9	23.9	16.0	12.0	12.0
65°	18777.1	9684.9	215.5	91.8	51.9	27.9	18.0	18.0	12.0	8.0	8.0
66°	18384.1	9148.1	189.5	83.8	45.9	23.9	16.0	14.0	10.0	6.0	6.0
67.5°	17506.2	8232.3	163.6	71.8	37.9	18.0	12.0	12.0	8.0	4.0	4.0
70°	15125.9	6723.9	129.7	53.9	27.9	14.0	8.0	8.0	6.0	4.0	4.0
72.5°	11528.5	5020.0	105.7	39.9	20.0	10.0	6.0	6.0	6.0	4.0	4.0
75°	6953.4	2703.5	81.8	29.9	18.0	8.0	4.0	6.0	8.0	6.0	4.0
77.5°	2561.9	919.8	63.8	23.9	14.0	8.0	4.0	4.0	8.0	6.0	6.0
80°	628.5	239.4	45.9	20.0	14.0	8.0	4.0	4.0	8.0	8.0	8.0
82.5°	291.3	101.8	31.9	18.0	14.0	8.0	4.0	4.0	6.0	8.0	8.0
85°	167.6	47.9	25.9	20.0	14.0	8.0	4.0	4.0	6.0	8.0	8.0
87.5°	67.8	23.9	23.9	20.0	16.0	10.0	4.0	4.0	4.0	6.0	6.0
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)