

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: P383492

Luminaire Tested: **GLEON-SA7D-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 37054.2 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

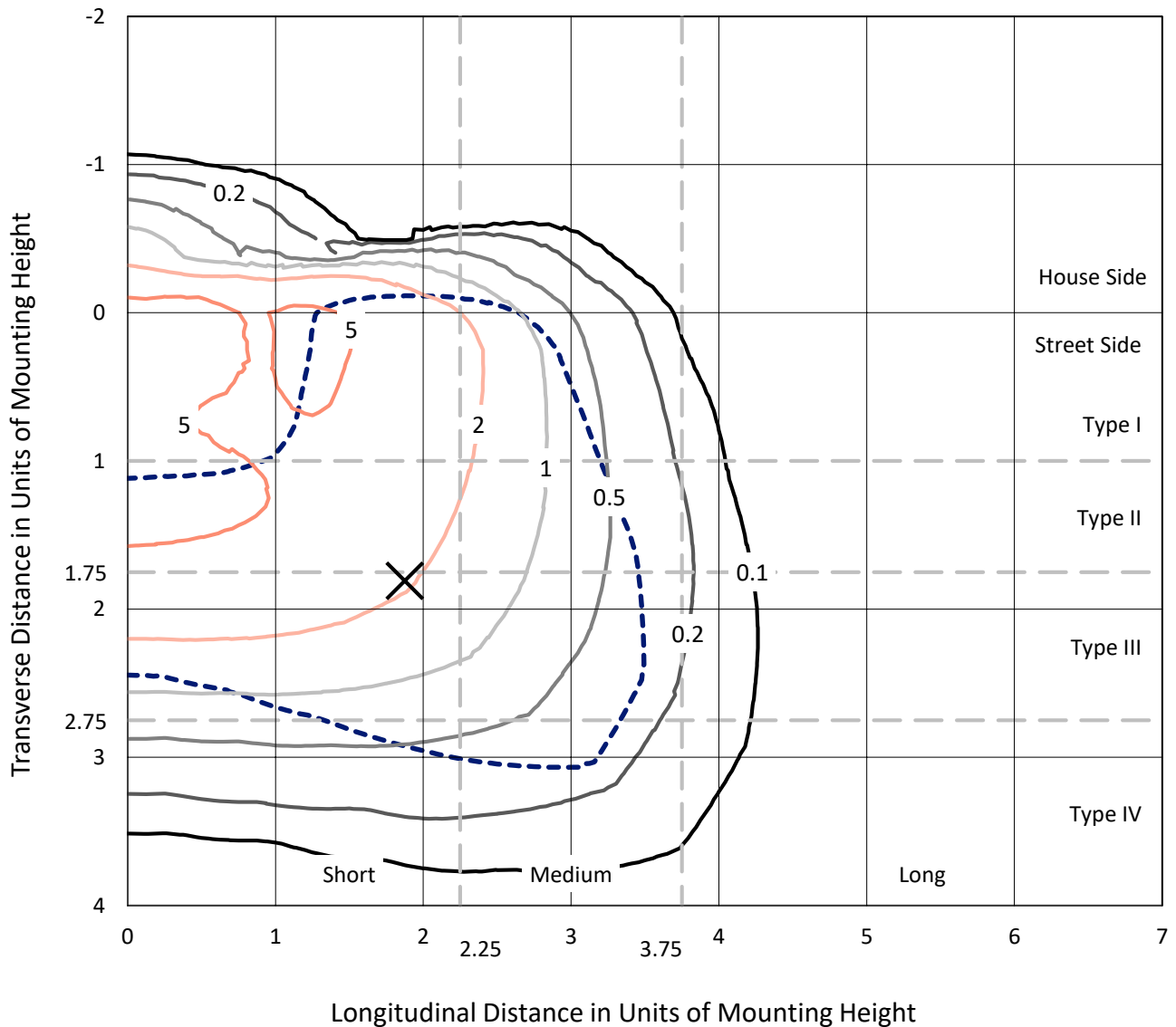
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

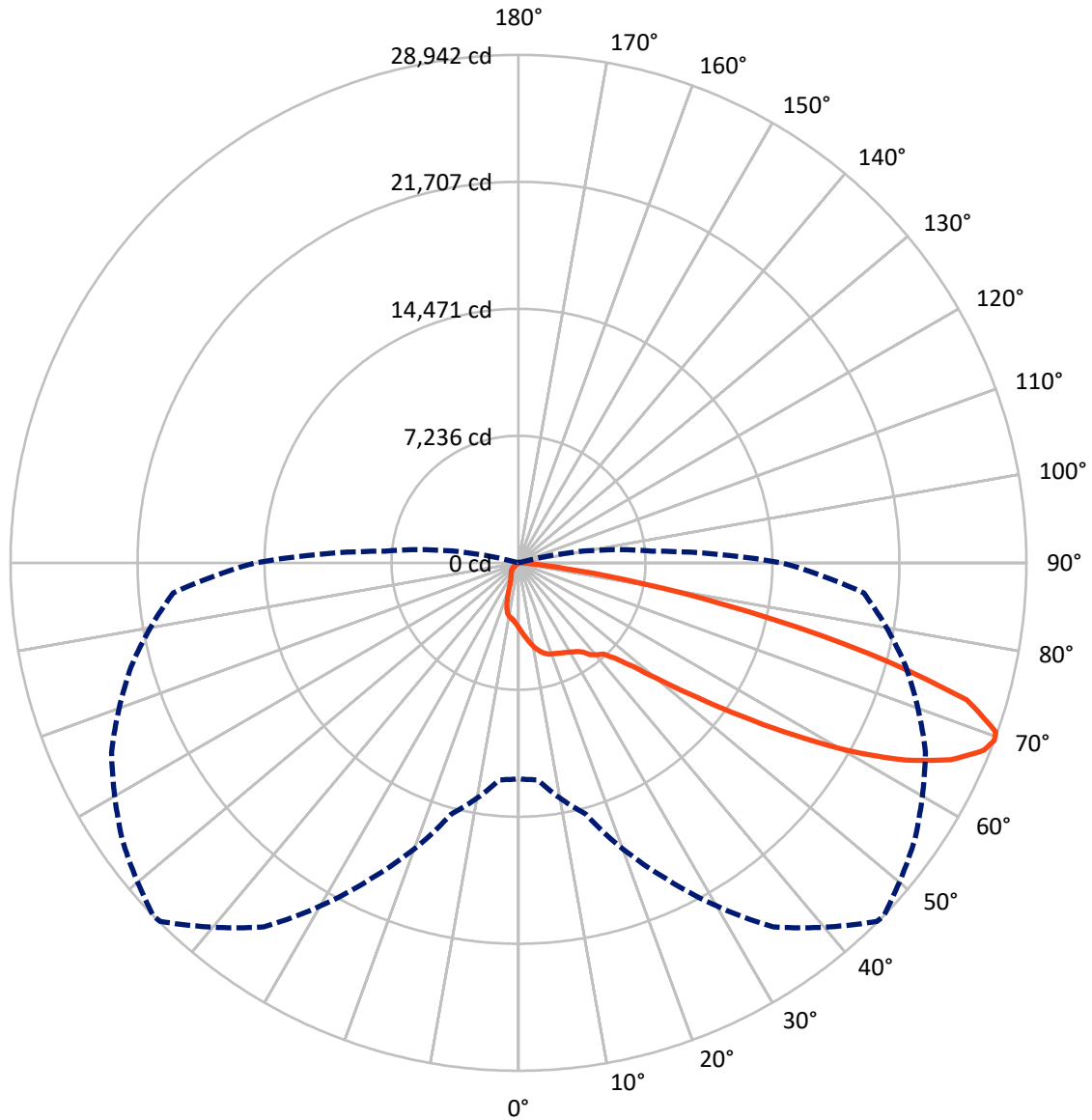
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3802.8	0.0	3802.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	33251.4	0.0	33251.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	37054.2	0.0	37054.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.5	1.0
10°-20°	1121.1	3.0
20°-30°	1763.1	4.8
30°-40°	2528.3	6.8
40°-50°	4369.9	11.8
50°-60°	8633.1	23.3
60°-70°	12065.5	32.6
70°-80°	5829.0	15.7
80°-90°	374.7	1.0
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°	37054.2	100.0
0°-180°	37054.2	100.0

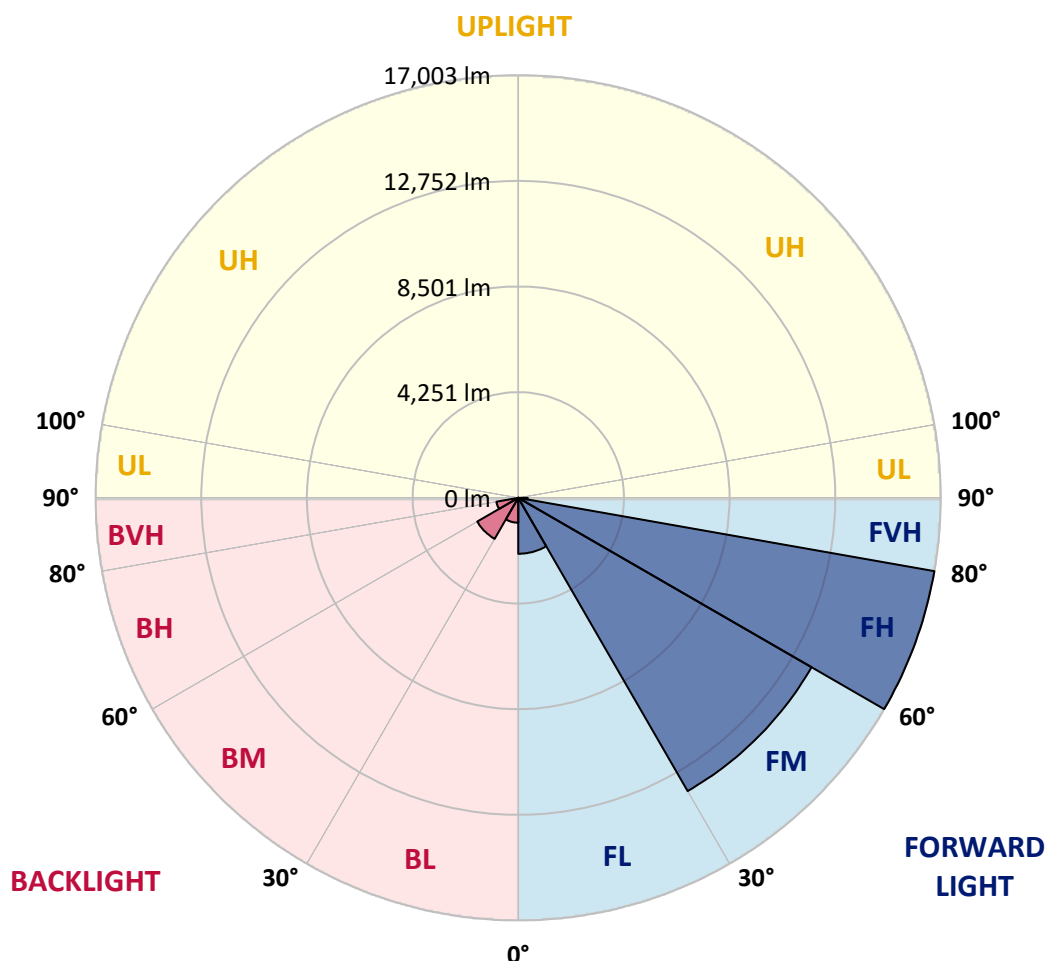


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2251.5	6.1			
FM (30°-60°)	13625.6	36.8			
FH (60°-80°)	17002.8	45.9			G5
FVH (80°-90°)	371.5	1.0			G3/500
BL (0°-30°)	1002.3	2.7	B3/2500		
BM (30°-60°)	1905.7	5.1	B2/2500		
BH (60°-80°)	891.7	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3712.7	3712.7	3712.7	3712.7	3712.7	3712.7	3712.7	3712.7	3712.7	3712.7	3712.7
2.5°	4124.4	4119.2	4094.9	4084.5	4025.4	3990.7	3976.8	3933.4	3870.8	3808.3	3738.8
5°	4593.6	4591.8	4546.6	4503.2	4392.0	4287.7	4268.6	4167.8	4027.2	3895.1	3763.1
7.5°	5073.0	5050.5	5005.3	4921.8	4760.3	4593.6	4577.9	4435.4	4235.7	4044.5	3855.1
10°	5479.5	5465.7	5406.6	5279.7	5090.4	4901.1	4882.0	4706.5	4480.6	4246.1	4004.5
12.5°	5795.7	5785.4	5707.1	5549.0	5347.5	5151.2	5125.2	4968.8	4727.3	4465.0	4180.0
15°	5988.6	5983.4	5887.8	5719.3	5521.3	5351.0	5328.5	5191.1	4967.0	4692.6	4371.1
17.5°	6033.7	6035.5	5936.5	5766.2	5602.9	5481.3	5463.9	5359.7	5172.0	4899.3	4562.3
20°	5933.0	5953.9	5865.2	5717.6	5616.8	5552.5	5538.6	5476.1	5318.0	5060.8	4715.1
22.5°	5790.5	5800.9	5740.2	5641.2	5599.4	5611.6	5604.7	5569.9	5436.1	5199.8	4866.3
25°	5703.7	5703.7	5667.2	5583.8	5611.6	5686.3	5688.0	5681.1	5575.1	5370.1	5050.5
27.5°	5700.2	5689.8	5648.1	5585.6	5661.9	5776.6	5783.6	5830.5	5764.5	5576.9	5279.7
30°	5839.2	5827.0	5738.4	5656.7	5754.1	5877.4	5894.7	5997.3	5964.2	5800.9	5535.2
32.5°	6164.1	6120.6	5924.4	5790.5	5863.5	6011.2	6033.7	6197.1	6249.2	6077.2	5781.8
35°	6608.9	6471.6	6188.4	6044.2	6051.1	6205.8	6226.7	6466.3	6621.0	6330.9	5973.0
37.5°	7222.1	7154.4	6693.9	6308.3	6339.6	6574.1	6634.9	6895.5	6852.1	6469.9	6190.1
40°	8566.8	8460.9	7970.9	7048.4	6615.8	6872.9	6892.1	7031.0	7034.5	6784.3	6641.8
42.5°	10397.9	10354.5	9838.5	8391.4	7159.6	7072.7	7107.4	7342.0	7604.3	7448.0	7441.0
45°	12425.4	12402.8	11855.6	10173.8	8259.3	7727.7	7771.1	8085.6	8587.7	8622.4	8843.1
47.5°	14056.8	14046.3	13731.9	12163.1	9942.8	8837.9	8851.8	9185.3	10067.9	10503.9	10856.6
50°	15544.0	15594.3	15345.9	14315.7	12236.1	10576.9	10543.9	10766.3	12184.0	12898.0	13335.8
52.5°	17611.4	17682.6	16985.9	16324.0	14642.3	12734.7	12708.6	12941.4	14727.4	15262.5	15340.7
55°	19437.3	19315.7	18765.0	18573.8	17576.6	15399.8	15392.8	15597.8	17187.5	17415.1	17559.3
57.5°	20243.5	20196.5	20462.4	20900.2	20650.0	18549.5	18533.9	18377.6	19388.7	19413.0	19856.0
60°	20752.5	20809.8	21624.7	22974.6	23598.2	21939.1	21838.4	20884.6	21490.9	21437.0	21911.3
62.5°	20370.2	20483.2	21949.5	24199.4	25804.7	24897.8	24755.3	23181.3	23287.3	23101.4	23542.6
65°	18341.1	18516.6	20919.3	23968.3	26899.2	27210.1	27065.9	25208.8	24713.6	24407.9	24162.9
67.5°	14892.5	14996.7	17505.4	21958.2	26405.7	28589.7	28560.0	26986.1	25790.7	24187.2	22286.5
69°	12307.3	12409.8	14824.7	19842.2	25319.9	28885.0	28942.3	27555.9	25585.8	22846.0	19746.6
70°	10424.0	10533.5	12783.3	18028.3	24060.4	28747.7	28850.2	27502.1	24998.5	21292.8	17517.6
72.5°	5467.4	5561.2	7870.2	12420.2	19614.6	26397.1	26708.1	25177.5	21190.3	15464.1	10358.0
75°	1718.2	1772.1	3073.4	6492.4	13429.7	20524.9	20596.1	19750.0	15047.1	8506.0	4313.8
77.5°	655.0	639.3	1023.3	2392.3	6789.5	12924.0	13360.2	12342.1	7896.2	3007.3	995.5
80°	352.7	354.5	531.6	990.3	2904.8	6641.8	7010.2	5981.7	2805.8	938.2	229.3
82.5°	152.9	159.9	298.8	524.6	1334.3	2449.7	2633.8	2192.5	1071.9	630.7	85.1
85°	33.0	36.5	144.2	285.0	543.7	687.9	721.0	710.6	682.7	489.9	33.0
87.5°	0.0	0.0	64.3	102.5	137.2	156.4	137.2	179.0	377.0	330.1	17.4
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°	3712.7	3712.7	3712.7	3712.7	3712.7	3712.7	3712.7	3712.7	3712.7	3712.7	3712.7
2.5°	3716.1	3684.9	3631.1	3571.9	3530.3	3486.9	3452.1	3436.5	3419.1	3406.9	3422.6
5°	3709.2	3648.4	3544.2	3443.4	3370.4	3311.4	3262.7	3243.6	3224.5	3210.6	3208.9
7.5°	3770.1	3684.9	3525.1	3377.4	3264.4	3184.5	3118.5	3090.7	3068.1	3057.7	3049.0
10°	3886.4	3777.0	3563.3	3370.4	3224.5	3089.0	2946.5	2837.0	2765.9	2732.8	2720.7
12.5°	4037.6	3900.3	3636.2	3406.9	3194.9	2934.4	2632.1	2371.4	2202.9	2147.3	2114.3
15°	4214.8	4044.5	3731.8	3453.8	3087.2	2611.2	2098.7	1758.2	1601.8	1570.6	1535.8
17.5°	4385.1	4197.4	3846.5	3462.5	2851.0	2086.6	1537.5	1306.5	1245.7	1266.5	1271.7
20°	4534.5	4348.6	3959.4	3386.1	2421.8	1565.4	1190.1	1132.8	1155.3	1195.3	1202.3
22.5°	4685.6	4494.5	4063.6	3184.5	1872.9	1188.4	1071.9	1085.8	1108.4	1148.4	1155.3
25°	4869.8	4671.7	4160.9	2814.5	1405.5	1011.1	1018.1	1039.0	1061.5	1098.0	1101.5
27.5°	5081.7	4895.8	4225.2	2333.2	1042.4	929.5	952.0	983.3	1005.9	1040.6	1047.6
30°	5363.2	5191.1	4246.1	1834.6	873.9	856.5	866.9	905.2	938.2	969.5	974.7
32.5°	5627.2	5483.0	4176.6	1384.7	809.6	788.7	788.7	811.4	849.6	879.1	886.1
35°	5870.4	5776.6	3954.1	1012.9	761.0	726.2	708.8	708.8	733.1	757.4	764.4
37.5°	6191.9	6188.4	3594.6	807.8	714.0	674.1	637.6	609.8	601.1	606.3	609.8
40°	6742.6	6747.9	3125.4	724.5	674.1	620.2	564.6	514.2	467.4	451.7	449.9
42.5°	7602.5	7524.4	2633.8	684.5	639.3	564.6	481.2	413.5	340.5	317.9	316.2
45°	8968.1	8504.3	2112.6	648.0	602.9	502.1	397.9	305.7	246.7	229.3	229.3
47.5°	10957.4	9791.6	1636.5	608.1	554.2	430.8	300.5	220.7	180.7	172.0	173.7
50°	13014.4	11052.9	1254.3	557.7	495.1	356.1	222.4	159.9	137.2	137.2	139.0
52.5°	14838.6	11977.2	978.1	503.9	422.2	279.7	168.5	125.1	114.7	112.9	114.7
55°	16546.4	12573.1	748.8	441.3	335.3	208.5	128.6	102.5	95.6	92.0	90.4
57.5°	18193.4	12868.5	561.2	356.1	243.2	151.2	102.5	86.9	79.9	74.7	72.9
60°	19289.6	12628.7	385.7	262.3	168.5	109.5	85.1	74.7	66.0	60.8	59.1
62.5°	19908.1	11973.7	248.4	189.4	119.9	81.7	67.7	62.5	50.4	45.2	45.2
65°	19658.0	10893.1	173.7	135.5	86.9	60.8	50.4	50.4	36.5	29.5	27.8
67.5°	17420.3	9202.7	132.0	100.8	62.5	45.2	38.2	43.4	22.5	13.9	13.9
69°	14988.0	7627.0	112.9	83.4	52.2	36.5	33.0	40.0	15.6	10.4	8.7
70°	13026.6	6579.3	102.5	72.9	43.4	31.3	29.5	38.2	15.6	8.7	7.0
72.5°	7793.7	3669.3	78.2	52.2	27.8	24.3	24.3	43.4	15.6	8.7	7.0
75°	3149.7	1292.6	57.3	36.5	20.9	20.9	29.5	55.6	13.9	7.0	5.2
77.5°	714.0	283.2	33.0	22.5	13.9	20.9	34.7	43.4	8.7	3.4	0.0
80°	173.7	69.5	20.9	13.9	8.7	15.6	26.1	24.3	1.8	0.0	0.0
82.5°	57.3	24.3	8.7	7.0	1.8	5.2	12.2	7.0	0.0	0.0	0.0
85°	24.3	13.9	3.4	1.8	0.0	0.0	1.8	0.0	0.0	0.0	0.0
87.5°	15.6	5.2	0.0	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)