

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: P383518

Luminaire Tested: **GLEON-SA8A-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24707.4 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

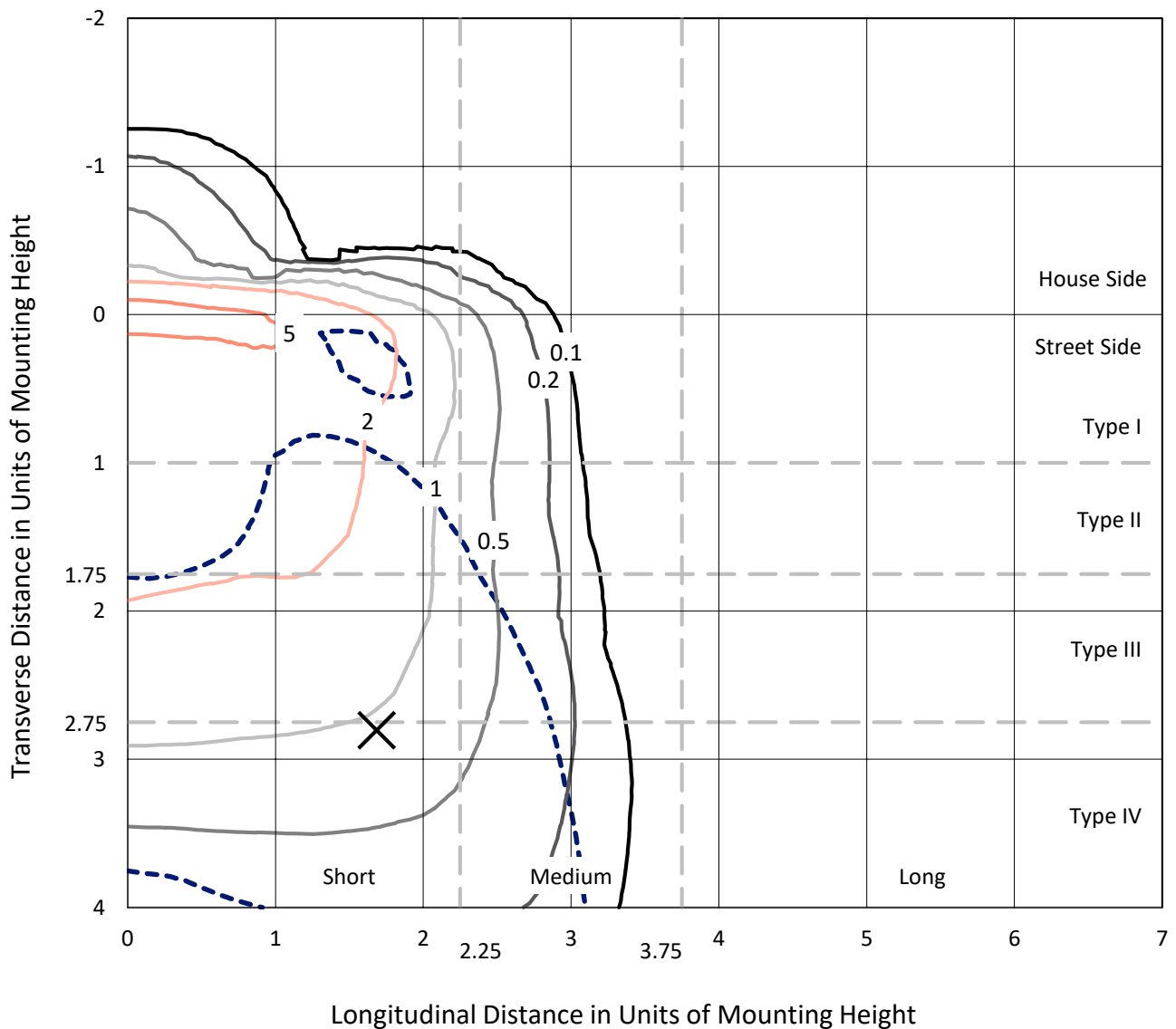
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383518
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Iso-Footcandle Lines of Horizontal Illumination

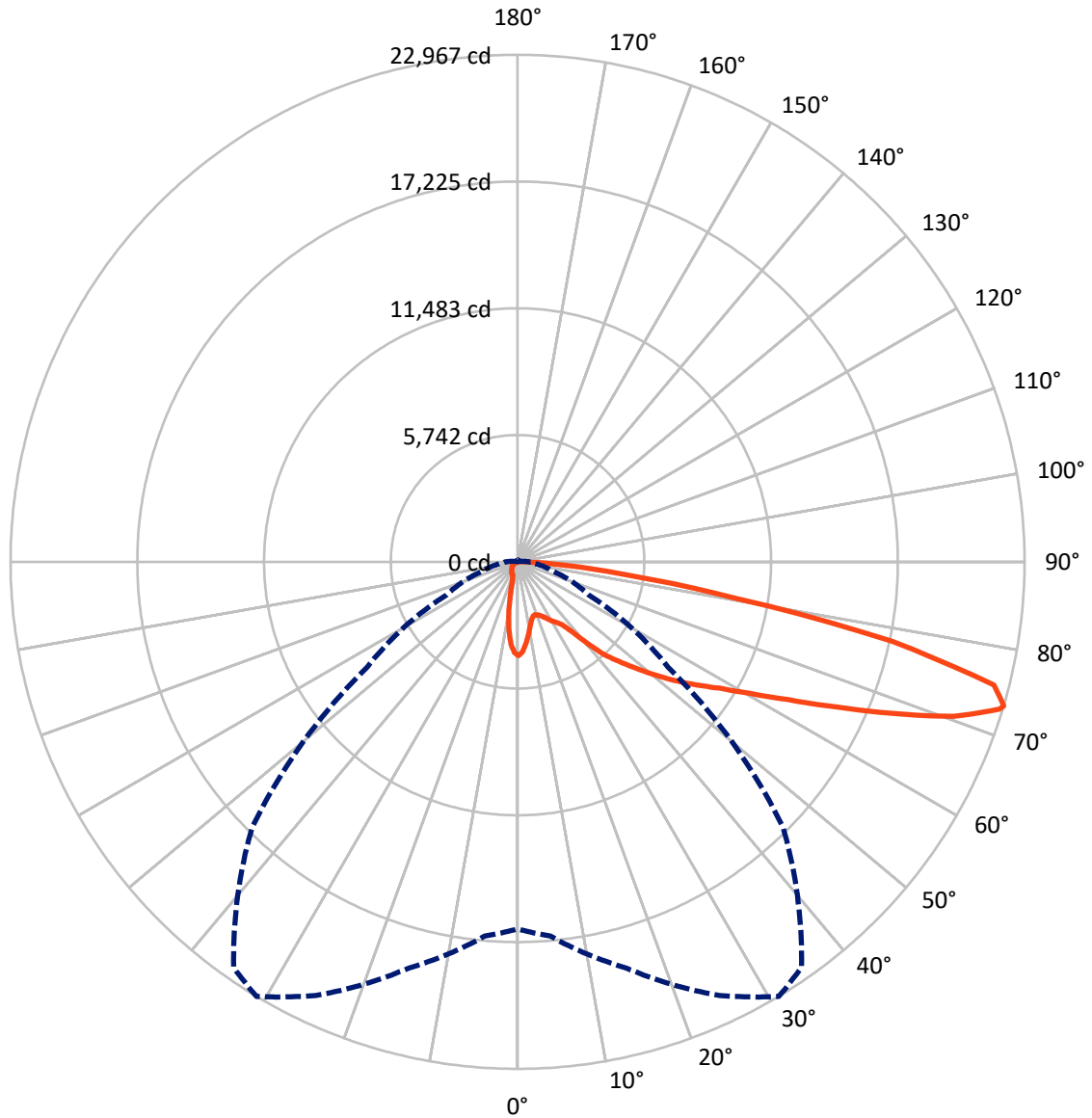
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P383518
CATALOG NUMBER: GLEON-SA8A-735-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2252.2	0.0	2252.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	22455.3	0.0	22455.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	24707.4	0.0	24707.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.5	1.4
10°-20°	765.3	3.1
20°-30°	1146.6	4.6
30°-40°	1824.3	7.4
40°-50°	3257.7	13.2
50°-60°	5055.0	20.5
60°-70°	6720.0	27.2
70°-80°	5054.8	20.5
80°-90°	531.2	2.1
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°	24707.4	100.0
0°-180°	24707.4	100.0

Coefficient of Utilization

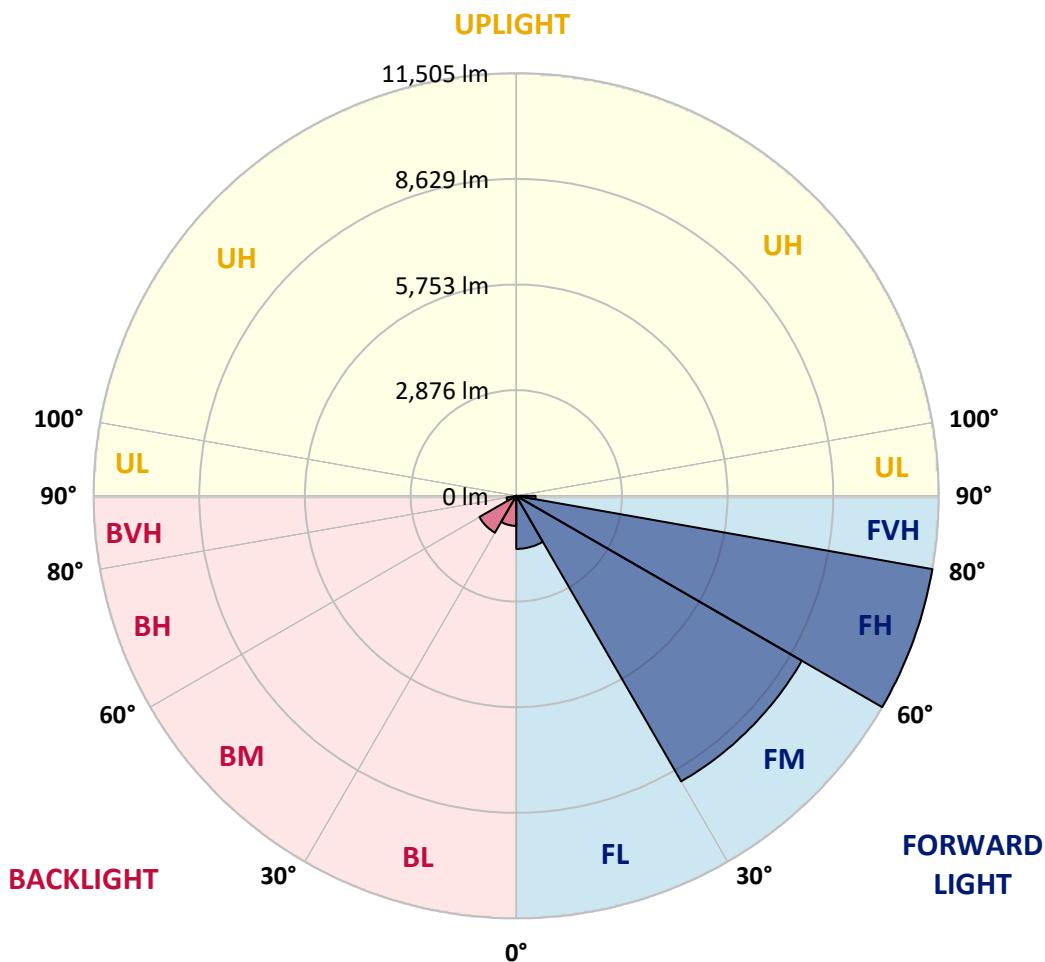


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1445.4	5.9			
FM (30°-60°)	8977.8	36.3			
FH (60°-80°)	11505.3	46.6			G4/12000
FVH (80°-90°)	526.7	2.1			G4/750
BL (0°-30°)	819.0	3.3	B2/1000		
BM (30°-60°)	1159.3	4.7	B2/2500		
BH (60°-80°)	269.5	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





REPORT NUMBER: P383518

CATALOG NUMBER: GLEON-SA8A-735-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4250.9	4250.9	4250.9	4250.9	4250.9	4250.9	4250.9	4250.9	4250.9	4250.9	4250.9
2.5°	4028.5	4045.4	4063.6	4067.2	4097.4	4098.6	4142.1	4174.8	4207.4	4238.9	4249.7
5°	3615.1	3642.8	3675.4	3708.1	3772.2	3797.5	3903.9	4012.8	4116.8	4215.9	4264.3
7.5°	3173.7	3205.2	3251.1	3332.1	3403.4	3453.0	3621.0	3814.5	4008.0	4190.5	4295.7
10°	2771.1	2800.1	2848.5	2934.3	3044.4	3112.0	3338.1	3606.6	3890.7	4167.6	4342.9
12.5°	2514.8	2530.5	2557.1	2648.9	2748.2	2824.3	3090.3	3422.8	3793.9	4166.3	4419.0
15°	2467.7	2472.5	2450.7	2491.8	2569.2	2643.0	2912.6	3274.1	3720.2	4185.7	4518.2
17.5°	2542.6	2540.1	2467.7	2462.8	2524.5	2585.0	2825.5	3171.3	3668.2	4230.4	4646.3
20°	2656.2	2647.8	2522.1	2499.1	2564.4	2621.2	2819.4	3132.6	3648.9	4305.3	4802.3
22.5°	2807.4	2792.9	2595.8	2571.6	2641.8	2701.0	2894.4	3170.1	3665.8	4405.8	4983.7
25°	2994.7	2973.0	2722.7	2696.2	2767.4	2826.7	3028.6	3277.7	3716.6	4527.9	5213.3
27.5°	3206.4	3174.9	2925.9	2857.0	2937.9	2999.6	3207.6	3442.2	3796.3	4657.2	5495.1
30°	3405.8	3364.7	3139.9	3026.2	3125.3	3194.3	3401.0	3638.0	3924.5	4856.7	5880.8
32.5°	3606.6	3560.6	3330.9	3195.5	3284.9	3359.9	3600.5	3907.6	4165.1	5161.3	6393.4
35°	4068.4	4020.0	3738.3	3514.6	3513.4	3555.8	3879.8	4276.4	4483.1	5585.7	7005.1
37.5°	4845.8	4818.0	4549.6	4125.3	4011.6	3964.4	4260.6	4716.4	4940.1	6169.7	7695.5
40°	5697.0	5672.8	5371.8	4987.2	4814.3	4698.4	4807.2	5329.4	5585.7	6883.0	8400.4
42.5°	6658.1	6543.3	6006.5	5891.7	5736.8	5648.6	5550.7	6085.1	6378.9	7659.3	9099.2
45°	7531.1	7337.6	6641.2	6467.1	6432.1	6453.9	6508.3	7100.6	7271.1	8581.7	9795.6
47.5°	8051.0	7898.6	7364.3	7197.4	7187.7	7331.6	7742.7	8248.0	8159.8	9385.7	10408.6
50°	8545.5	8407.6	7963.9	8005.0	8049.8	8245.6	9143.9	9428.0	8971.0	10114.7	10970.7
52.5°	8945.7	8735.3	8503.2	8734.1	8954.1	9269.6	10589.9	10487.2	9546.5	10695.1	11452.0
55°	9176.6	9081.1	9193.5	9425.7	9839.1	10351.7	11954.9	11368.5	9967.3	11224.7	11772.3
57.5°	10022.9	9835.5	10059.1	10259.9	10799.1	11516.1	13124.1	12025.1	10270.8	11552.3	11846.1
60°	11046.9	10895.8	11027.6	11361.3	12089.2	12931.8	14217.0	12560.6	10429.1	11762.7	11655.1
62.5°	12676.7	12477.2	12395.0	12768.6	13733.4	14653.5	15046.4	12931.8	10394.1	11669.6	10999.8
65°	14860.2	14653.5	14285.9	14624.5	15851.7	16500.9	15973.8	13010.5	10152.3	10916.3	9343.4
67.5°	17097.0	16947.0	16632.7	17203.4	18310.9	18520.0	16954.3	12819.4	9373.6	8851.4	6601.3
70°	18574.4	18510.3	18714.6	19976.9	20964.7	20904.2	17853.9	11792.9	7306.2	5443.0	3265.6
72.5°	17509.3	17816.3	19325.2	21614.0	22820.5	22327.2	17392.0	9055.7	4176.0	2094.0	944.2
73°	16626.6	17019.6	19050.8	21675.5	22966.8	22426.4	17003.8	8312.1	3559.4	1652.8	715.7
75°	11566.8	12049.2	15771.8	20187.3	22282.5	21367.3	14173.5	5087.6	1649.1	732.7	289.0
77.5°	5615.9	5972.6	8684.5	14585.8	17329.1	16694.4	8823.5	1895.8	744.8	458.2	133.0
80°	2096.4	2331.0	3769.8	7423.5	10014.4	10276.8	3881.0	716.9	495.7	368.8	67.7
82.5°	548.9	611.7	1390.4	3310.3	5132.4	5371.8	1223.6	361.5	362.7	303.5	41.1
85°	175.3	200.7	434.0	1485.9	2418.1	2123.1	319.1	175.3	263.5	226.1	23.0
87.5°	21.8	27.9	137.9	349.4	533.2	296.2	49.6	52.0	112.4	125.8	13.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383518

CATALOG NUMBER: GLEON-SA8A-735-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4250.9	4250.9	4250.9	4250.9	4250.9	4250.9	4250.9	4250.9	4250.9	4250.9	4250.9
2.5°	4260.6	4254.6	4255.8	4224.4	4203.8	4162.7	4120.4	4101.0	4080.5	4072.1	4080.5
5°	4282.4	4271.5	4240.1	4143.3	4040.6	3907.6	3783.1	3688.7	3570.2	3537.6	3571.5
7.5°	4316.2	4294.5	4202.6	4005.6	3777.1	3523.1	3237.8	3029.9	2859.4	2749.4	2789.2
10°	4365.8	4324.7	4139.7	3804.8	3396.1	2946.4	2541.4	2225.8	2002.2	1910.2	1906.7
12.5°	4449.3	4371.8	4062.4	3543.7	2930.7	2331.0	1800.2	1458.1	1276.8	1159.5	1157.1
15°	4541.1	4427.5	3964.4	3230.5	2389.0	1669.7	1159.5	899.5	782.2	744.8	739.9
17.5°	4653.5	4491.5	3837.5	2844.9	1822.0	1106.3	756.9	681.9	677.0	673.4	673.4
20°	4795.0	4567.8	3674.2	2403.6	1292.4	738.7	643.2	648.1	650.5	645.7	646.9
22.5°	4959.5	4645.1	3479.6	1929.6	874.2	617.8	615.4	621.4	623.9	621.4	622.6
25°	5150.5	4734.6	3242.6	1432.7	631.1	586.4	592.5	600.8	606.9	606.9	606.9
27.5°	5387.4	4843.4	2957.3	999.8	545.2	553.7	570.7	586.4	594.9	597.3	597.3
30°	5695.8	4978.8	2615.1	685.5	495.7	510.2	541.6	571.9	587.6	590.0	591.3
32.5°	6085.1	5131.2	2218.6	506.6	453.4	464.3	498.1	548.9	579.1	584.0	584.0
35°	6531.2	5307.7	1791.8	441.3	423.2	426.8	453.4	511.4	564.6	577.9	579.1
37.5°	7019.7	5481.8	1362.6	412.3	397.8	397.8	417.1	466.7	529.6	570.7	575.5
40°	7475.5	5587.0	955.1	389.3	374.8	374.8	391.7	428.0	487.2	548.9	562.2
42.5°	7896.2	5623.2	664.9	367.6	353.1	356.7	371.1	400.2	444.9	506.6	518.7
45°	8329.1	5617.1	484.8	342.2	331.3	342.2	353.1	374.8	407.5	442.5	444.9
47.5°	8655.5	5566.4	384.4	317.9	310.8	325.2	334.9	349.4	367.6	365.2	365.2
50°	8961.4	5443.0	309.6	285.3	290.2	307.1	312.0	316.7	317.9	295.0	292.6
52.5°	9193.5	5250.9	247.9	250.3	269.6	286.5	281.7	274.4	262.3	234.6	229.7
55°	9270.9	4880.8	194.7	206.7	239.4	261.1	243.0	227.3	204.3	181.4	176.5
57.5°	9130.7	4403.3	158.4	160.8	201.9	220.0	199.4	181.4	155.9	136.7	133.0
60°	8833.2	3872.5	130.6	120.9	155.9	171.7	158.4	140.3	117.3	102.7	101.5
62.5°	8243.2	3306.7	107.6	94.3	118.5	131.8	123.3	110.0	90.6	81.0	79.8
65°	7002.7	2645.4	87.0	76.2	91.9	102.7	95.5	85.8	71.4	64.1	62.9
67.5°	4888.1	1788.2	71.4	62.9	72.6	81.0	75.0	70.1	56.8	55.6	56.8
70°	2357.7	862.1	59.2	50.8	56.8	62.9	60.5	56.8	54.4	62.9	72.6
72.5°	675.8	289.0	47.1	42.3	45.9	49.6	52.0	50.8	59.2	76.2	88.2
73°	519.9	233.4	44.7	39.9	43.5	48.3	50.8	49.6	60.5	77.4	88.2
75°	222.5	112.4	33.8	32.6	36.2	42.3	44.7	44.7	60.5	78.6	84.7
77.5°	100.3	60.5	21.8	25.4	31.4	33.8	37.4	37.4	48.3	60.5	60.5
80°	56.8	32.6	17.0	19.4	23.0	23.0	23.0	20.6	21.8	24.2	26.6
82.5°	36.2	21.8	13.3	15.7	14.5	12.1	9.7	9.7	8.5	9.7	12.1
85°	20.6	12.1	12.1	9.7	6.1	4.8	6.1	4.8	1.2	0.0	1.2
87.5°	12.1	7.3	3.6	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)