

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: P191934

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL3-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA 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: 30415 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 333
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: 25 FT

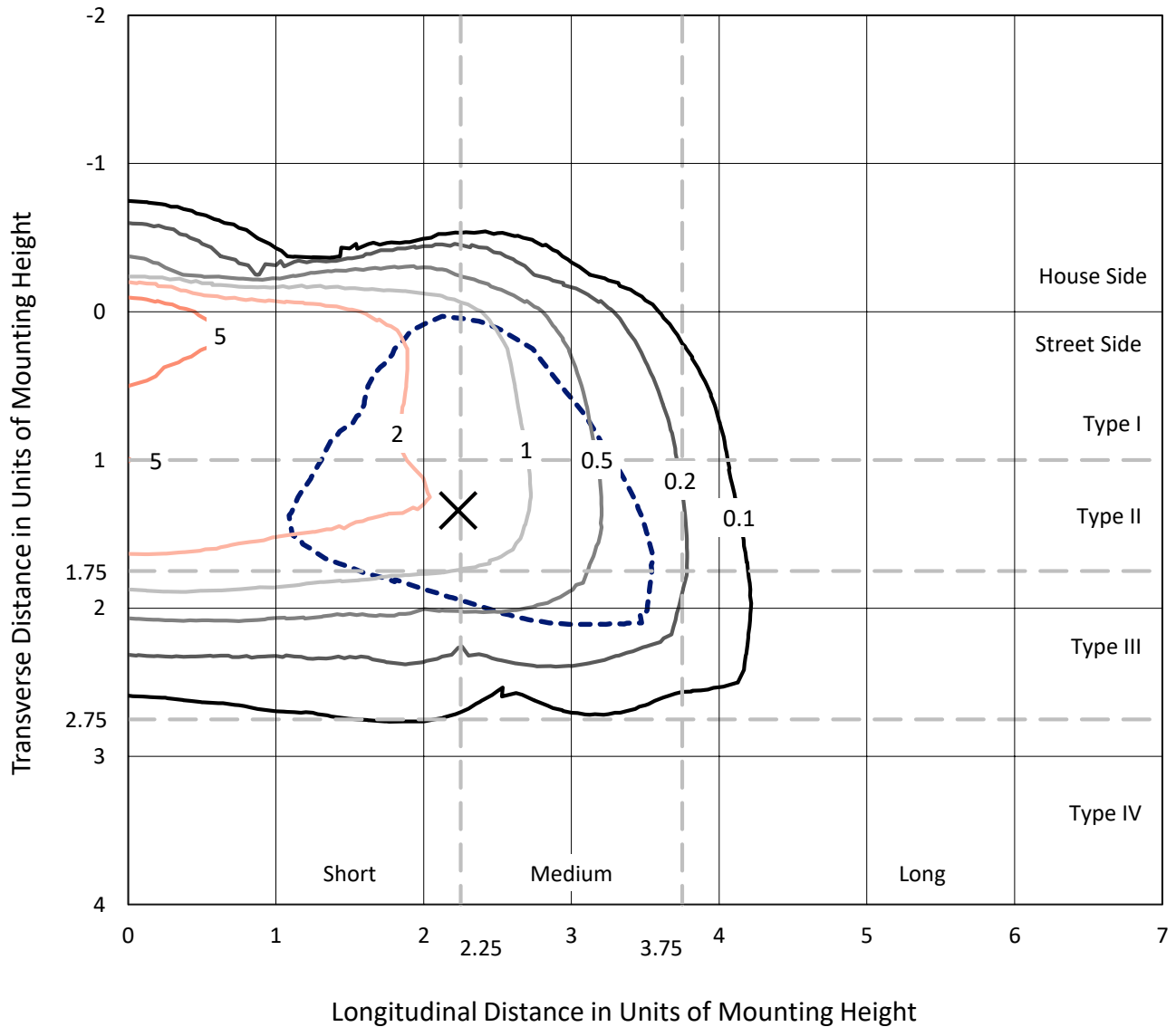


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

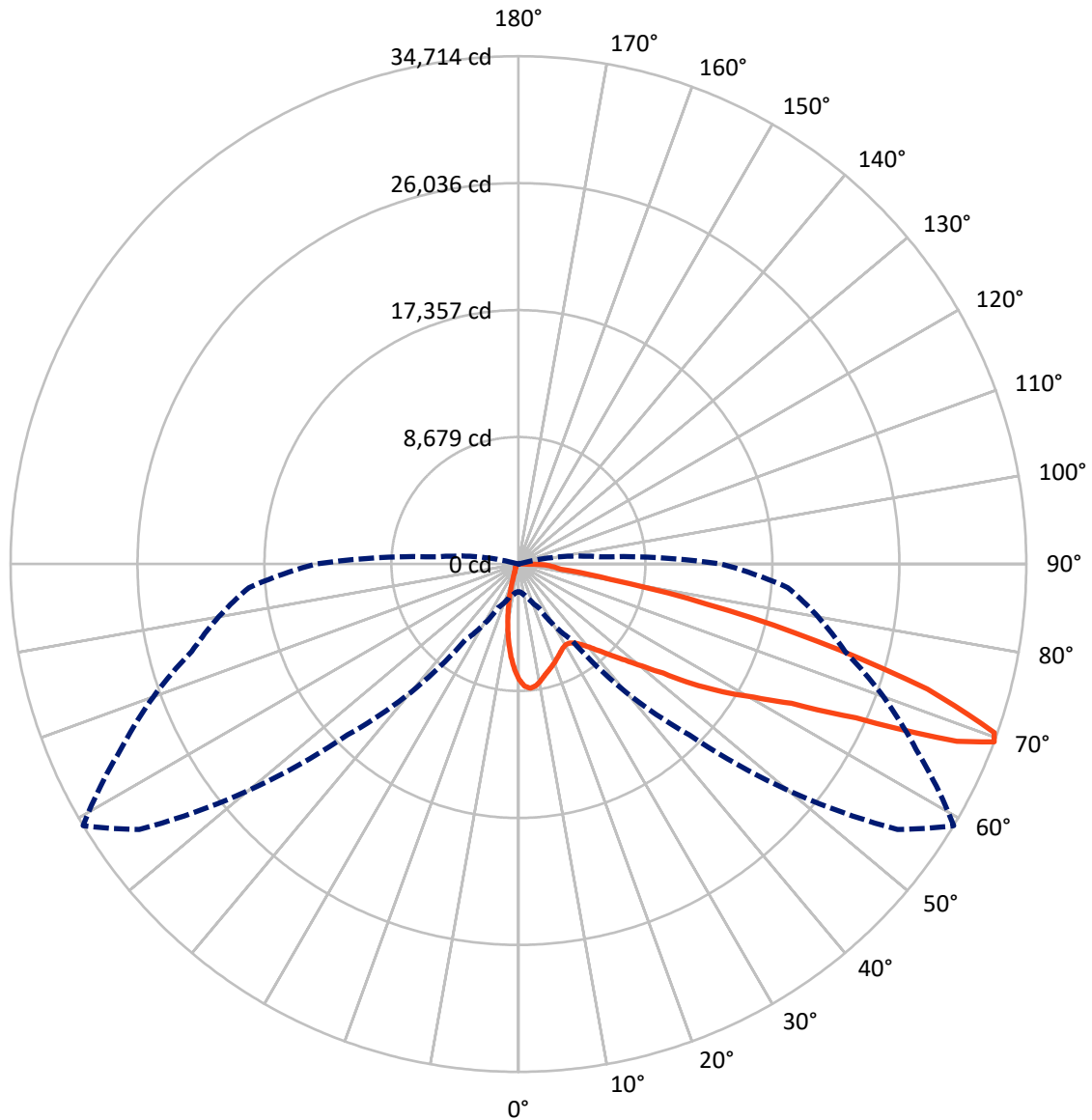


Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2476.9	0.0	2476.9
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	27938.1	0.0	27938.1
	% Fixture	91.9	0.0	91.9
Total	Lumens	30415.0	0.0	30415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.6	2.1
10°-20°	1327.8	4.4
20°-30°	1786.7	5.9
30°-40°	2594.2	8.5
40°-50°	4319.5	14.2
50°-60°	6738.3	22.2
60°-70°	8338.1	27.4
70°-80°	4225.7	13.9
80°-90°	442.2	1.5
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°	30415.0	100.0
0°-180°	30415.0	100.0

Coefficient of Utilization



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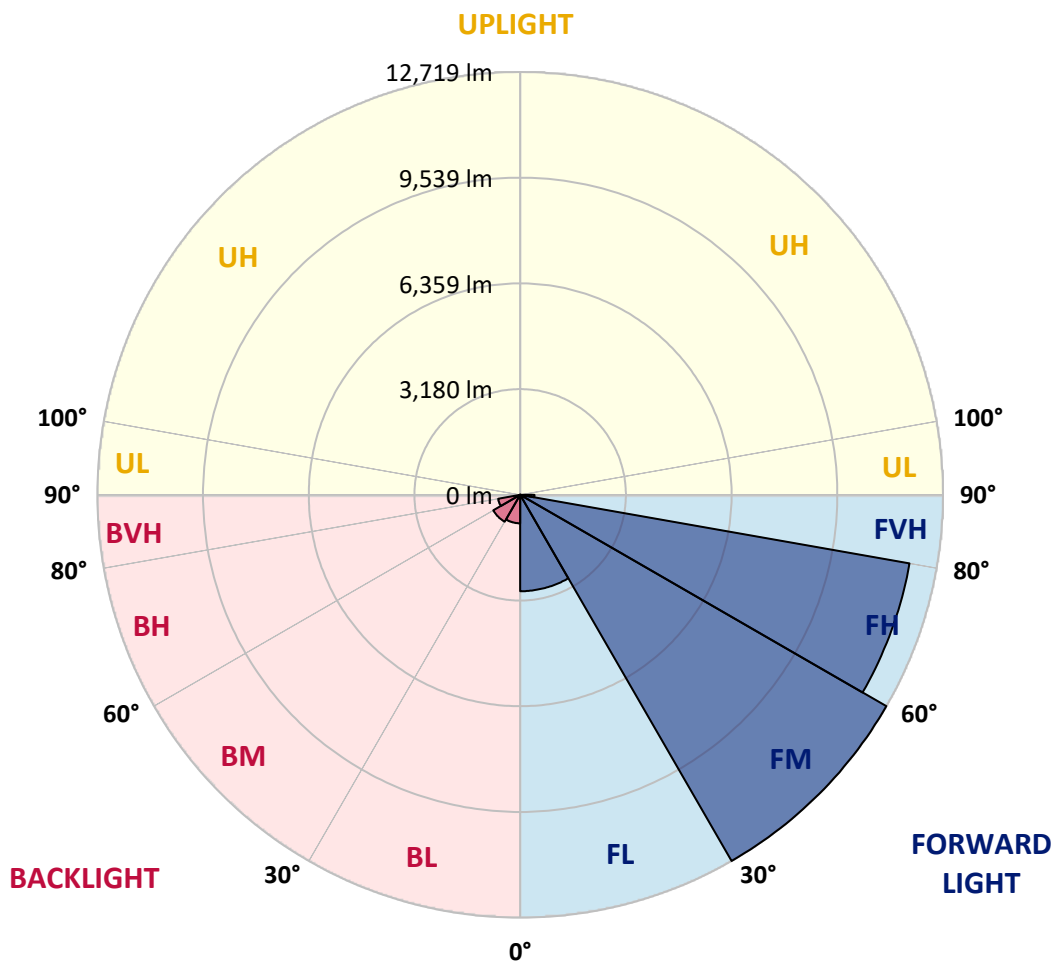
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2899.7	9.5			
FM	(30°-60°)	12718.7	41.8			
FH	(60°-80°)	11891.2	39.1			G4/12000
FVH	(80°-90°)	428.5	1.4			G3/500
BL	(0°-30°)	857.3	2.8	B2/1000		
BM	(30°-60°)	933.3	3.1	B1/1000		
BH	(60°-80°)	672.7	2.2	B2/1000		G2/1000
BVH	(80°-90°)	13.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7916.6	7916.6	7916.6	7916.6	7916.6	7916.6	7916.6	7916.6	7916.6	7916.6	7916.6
2.5°	8676.8	8673.4	8635.5	8618.3	8587.4	8522.0	8420.5	8367.2	8281.2	8131.6	7930.4
5°	8597.7	8639.0	8661.3	8663.0	8685.4	8661.3	8570.2	8525.4	8406.8	8166.0	7804.8
7.5°	8061.1	8076.6	8140.2	8195.2	8301.9	8403.3	8436.0	8417.1	8346.6	8088.6	7608.7
10°	7486.6	7502.1	7577.8	7650.0	7794.5	7951.0	8116.1	8150.5	8179.7	7978.5	7419.6
12.5°	6991.3	7006.8	7084.2	7178.8	7347.3	7540.0	7796.2	7853.0	7982.0	7873.6	7268.2
15°	6564.8	6571.7	6647.3	6764.3	6965.5	7213.2	7503.8	7595.0	7792.8	7799.7	7135.8
17.5°	6201.9	6219.1	6265.5	6377.3	6597.5	6903.6	7242.4	7373.1	7605.3	7737.7	7006.8
20°	5980.0	5997.2	5995.5	6057.4	6255.2	6582.0	6981.0	7137.5	7419.6	7674.1	6891.6
22.5°	5937.0	5937.0	5892.3	5883.7	6000.7	6274.1	6709.2	6900.2	7252.7	7646.6	6810.7
25°	6090.1	6083.2	5971.4	5880.3	5885.4	6048.8	6446.1	6673.1	7111.7	7665.5	6767.7
27.5°	6413.4	6404.8	6263.8	6090.1	5950.8	5949.1	6246.6	6490.8	6999.9	7754.9	6784.9
30°	6860.6	6857.2	6704.1	6485.7	6232.8	6000.7	6177.8	6399.7	6927.7	7916.6	6824.5
32.5°	7349.0	7343.9	7228.7	6998.2	6678.3	6232.8	6250.0	6435.8	6948.3	8131.6	6920.8
35°	7866.7	7858.1	7808.3	7607.0	7254.5	6661.1	6487.4	6631.9	7079.0	8453.2	7110.0
37.5°	8427.4	8436.0	8472.1	8279.5	7909.7	7261.3	6884.7	6982.7	7342.2	8890.1	7417.8
40°	9254.7	9253.0	9265.0	9012.2	8656.2	7995.7	7440.2	7471.2	7782.5	9469.7	7885.6
42.5°	10756.1	10651.2	10333.0	9817.1	9459.3	8835.0	8140.2	8107.5	8320.8	10186.8	8540.9
45°	12773.5	12550.0	11724.4	10735.5	10278.0	9781.0	9001.8	8896.9	9032.8	11048.5	9349.3
47.5°	14508.9	14276.7	13108.9	11691.7	11146.5	10678.7	10011.4	9822.2	9866.9	12013.4	10374.3
50°	15098.8	14985.3	13965.4	12524.2	11987.6	11808.7	11182.7	10952.2	10888.6	13129.6	11562.7
52.5°	14894.2	14885.6	14206.2	13064.2	12758.1	12978.2	12656.6	12390.0	12156.1	14306.0	12771.8
55°	14565.7	14608.7	14304.2	13537.2	13526.8	14046.3	14672.3	14450.4	13772.8	15583.8	13814.1
57.5°	13659.3	13843.3	14249.2	14431.5	14854.6	15386.0	16350.9	16481.6	15680.1	16562.4	14679.2
60°	11082.9	11487.1	12814.8	14560.5	16565.9	17890.2	18376.9	18488.7	17245.2	17375.9	15847.0
62.5°	7866.7	8279.5	9963.3	12916.3	16591.7	21180.3	21395.3	20956.7	18968.5	18581.6	17860.9
65°	4175.9	4494.0	5869.9	9323.5	14385.1	21943.9	26673.6	25366.5	22009.3	20953.3	20463.1
67.5°	2136.1	2232.4	2779.3	4562.8	9889.3	19491.4	31405.0	32325.1	27249.8	23306.1	20337.6
69°	1890.1	1946.9	2309.8	3298.7	6332.6	16509.1	31635.5	34714.0	29993.0	23110.0	18481.8
70°	1830.0	1879.8	2210.0	2985.7	4949.8	13845.0	30753.2	34504.2	30694.7	22363.6	17095.6
72.5°	1553.1	1596.0	1967.5	2638.3	4022.8	6872.6	24981.2	29237.9	27543.9	18629.7	12374.5
75°	1038.8	1179.8	1888.4	2473.2	3742.5	3904.1	16469.6	21128.7	19627.3	12565.4	6446.1
77.5°	249.4	268.3	533.2	1967.5	3422.6	3436.3	8470.4	13134.7	10713.1	4478.6	1523.8
80°	134.2	129.0	149.6	390.4	3186.9	3224.8	3813.0	6375.6	3825.0	743.0	502.2
82.5°	94.6	89.4	96.3	163.4	1002.7	2937.6	2758.7	2886.0	1585.7	285.5	225.3
85°	34.4	32.7	53.3	147.9	314.7	1688.9	2834.4	2380.3	1284.7	130.7	165.1
87.5°	12.0	10.3	20.6	80.8	96.3	718.9	1749.1	1799.0	505.6	79.1	77.4
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°	7916.6	7916.6	7916.6	7916.6	7916.6	7916.6	7916.6	7916.6	7916.6	7916.6	7916.6
2.5°	7846.1	7739.5	7543.4	7342.2	7156.4	6932.8	6821.0	6711.0	6664.5	6647.3	6566.5
5°	7619.1	7438.5	7022.3	6604.3	6219.1	5809.8	5539.7	5323.0	5195.8	5133.8	5035.8
7.5°	7328.4	7032.6	6401.4	5756.4	5156.2	4564.6	4126.0	3788.9	3556.7	3444.9	3343.4
10°	7046.3	6652.5	5754.7	4875.9	4060.6	3276.4	2671.0	2232.4	1952.1	1823.1	1740.5
12.5°	6793.5	6282.7	5130.4	4017.6	2994.3	2075.9	1460.2	1111.0	937.3	877.1	847.9
15°	6568.2	5942.2	4540.5	3202.4	2027.7	1186.7	798.0	679.4	651.8	651.8	648.4
17.5°	6355.0	5608.5	3971.2	2437.1	1272.7	725.8	607.1	591.6	591.6	598.5	598.5
20°	6150.3	5290.3	3420.8	1749.1	801.5	576.2	548.6	545.2	548.6	557.2	557.2
22.5°	5974.9	5001.4	2906.6	1200.5	595.1	519.4	505.6	500.5	502.2	507.4	510.8
25°	5844.1	4757.2	2421.6	813.5	512.5	473.0	457.5	448.9	442.0	442.0	445.4
27.5°	5761.6	4550.8	1952.1	591.6	460.9	430.0	405.9	392.1	376.7	368.1	371.5
30°	5701.4	4354.7	1511.8	483.3	412.8	381.8	350.9	328.5	306.1	295.8	299.3
32.5°	5679.0	4196.5	1130.0	426.5	369.8	335.4	297.5	268.3	244.2	235.6	237.3
35°	5739.2	4071.0	827.3	385.3	335.4	292.4	249.4	216.7	197.8	192.6	194.3
37.5°	5897.5	4003.9	619.2	350.9	304.4	256.3	208.1	177.1	165.1	165.1	166.8
40°	6196.7	4002.2	497.0	326.8	276.9	221.9	172.0	149.6	142.7	146.2	147.9
42.5°	6633.6	4093.3	433.4	304.4	252.8	189.2	142.7	127.3	125.6	129.0	130.7
45°	7230.4	4260.1	399.0	285.5	227.0	158.2	120.4	110.1	110.1	115.2	117.0
47.5°	7961.3	4504.4	369.8	266.6	201.2	132.4	103.2	96.3	98.0	103.2	104.9
50°	8841.9	4812.2	340.5	245.9	182.3	110.1	89.4	84.3	86.0	92.9	94.6
52.5°	9844.6	5226.7	316.5	227.0	158.2	91.2	75.7	72.2	75.7	82.6	84.3
55°	10704.5	5598.2	287.2	211.5	127.3	75.7	61.9	61.9	65.4	74.0	75.7
57.5°	11531.8	5986.9	261.4	182.3	99.8	60.2	51.6	53.3	58.5	67.1	68.8
60°	12746.0	6645.6	230.5	153.1	75.7	48.2	43.0	44.7	51.6	60.2	61.9
62.5°	14808.2	7648.3	199.5	127.3	58.5	37.8	34.4	37.8	46.4	56.8	58.5
65°	16669.1	8055.9	163.4	106.6	44.7	29.2	29.2	34.4	44.7	55.0	56.8
67.5°	15632.0	6781.5	127.3	84.3	34.4	22.4	24.1	32.7	43.0	55.0	56.8
69°	13824.4	5544.9	108.4	67.1	29.2	20.6	22.4	32.7	43.0	53.3	55.0
70°	12415.8	4681.5	96.3	56.8	25.8	20.6	22.4	31.0	43.0	53.3	55.0
72.5°	8315.6	2528.2	77.4	41.3	24.1	18.9	18.9	31.0	41.3	51.6	53.3
75°	3573.9	698.3	61.9	29.2	20.6	17.2	17.2	29.2	39.6	49.9	53.3
77.5°	653.6	177.1	49.9	25.8	20.6	17.2	15.5	27.5	37.8	48.2	49.9
80°	259.7	87.7	39.6	22.4	18.9	15.5	13.8	25.8	36.1	46.4	48.2
82.5°	156.5	49.9	32.7	20.6	18.9	13.8	12.0	22.4	34.4	44.7	46.4
85°	127.3	34.4	25.8	20.6	17.2	13.8	10.3	20.6	31.0	43.0	44.7
87.5°	61.9	24.1	24.1	18.9	17.2	13.8	10.3	18.9	29.2	41.3	43.0
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)