

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: P192875

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192875
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-07-LED-E1-SL3-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 34788.1 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 391
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

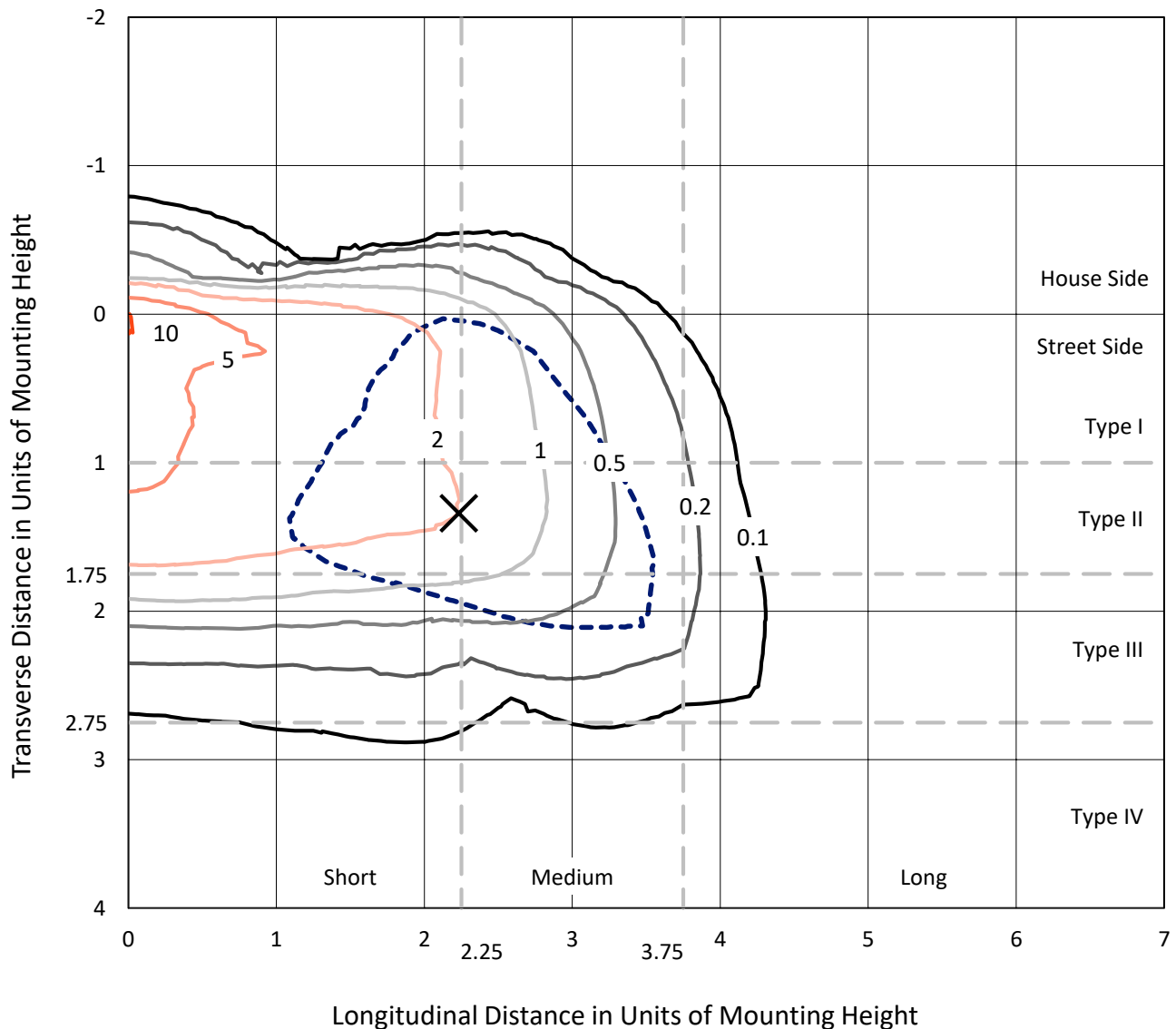


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

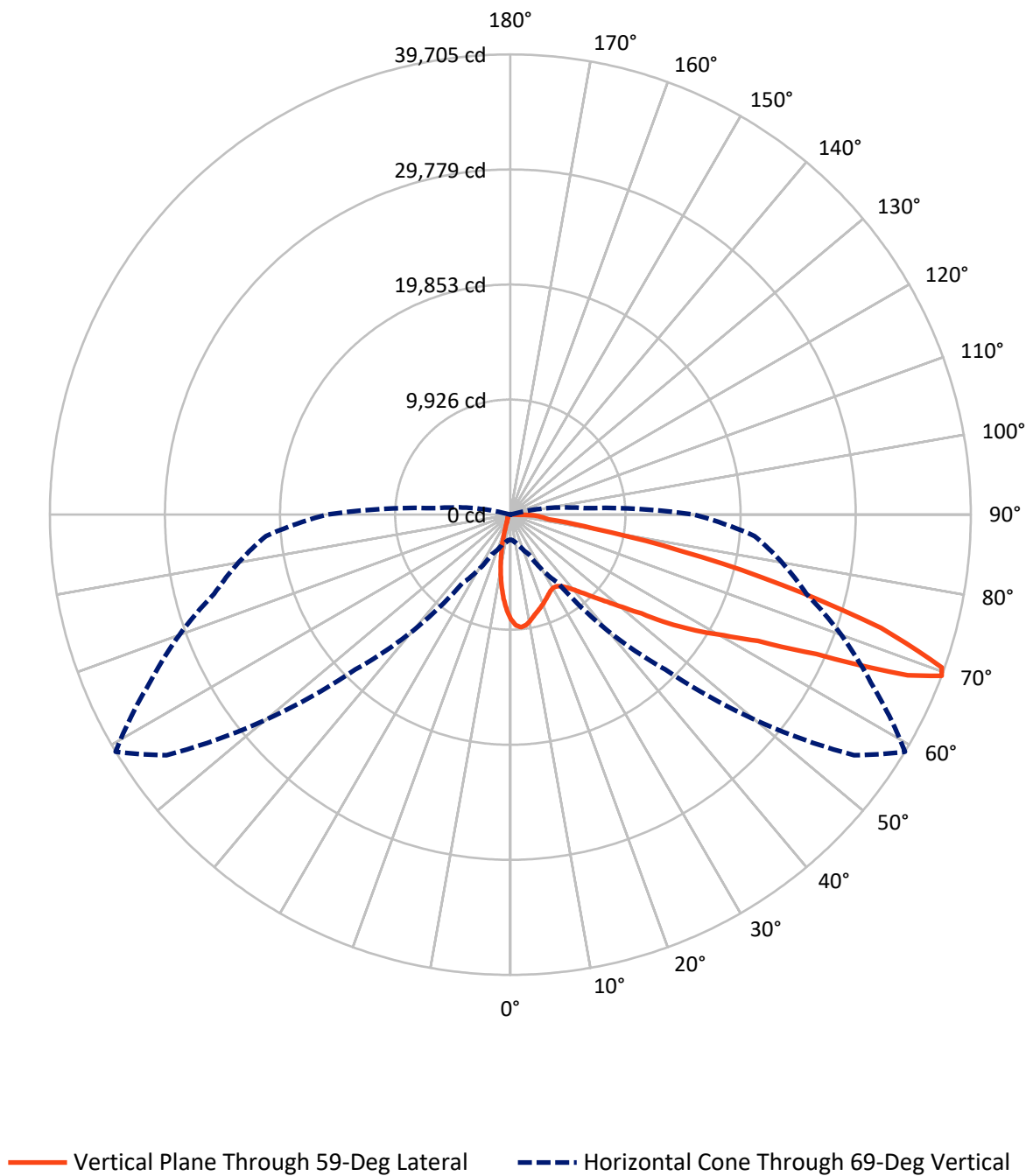


Based on 30 foot mounting height. Maximum calculated value = 10.1 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2833.0	0.0	2833.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	31955.1	0.0	31955.1
	% Fixture	91.9	0.0	91.9
Total	Lumens	34788.1	0.0	34788.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.0	2.1
10°-20°	1518.7	4.4
20°-30°	2043.6	5.9
30°-40°	2967.2	8.5
40°-50°	4940.5	14.2
50°-60°	7707.2	22.2
60°-70°	9537.0	27.4
70°-80°	4833.2	13.9
80°-90°	505.7	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°	34788.1	100.0
0°-180°	34788.1	100.0

Coefficient of Utilization



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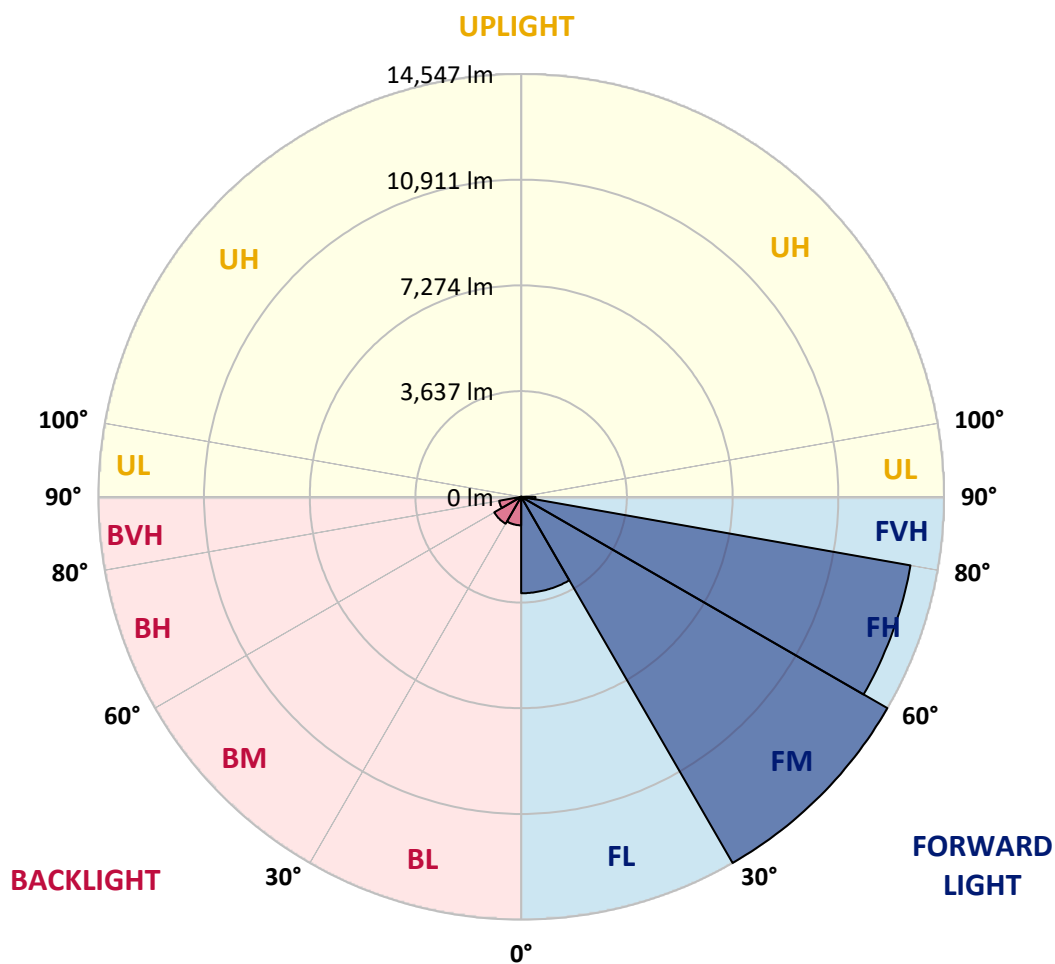
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3316.7	9.5			
FM	(30°-60°)	14547.4	41.8			
FH	(60°-80°)	13600.9	39.1			G5
FVH	(80°-90°)	490.2	1.4			G3/500
BL	(0°-30°)	980.6	2.8	B2/1000		
BM	(30°-60°)	1067.5	3.1	B2/2500		
BH	(60°-80°)	769.4	2.2	B2/1000		G2/1000
BVH	(80°-90°)	15.6	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9
2.5°	9924.3	9920.4	9877.1	9857.5	9822.1	9747.3	9631.2	9570.2	9471.9	9300.8	9070.6
5°	9833.9	9881.1	9906.6	9908.6	9934.2	9906.6	9802.4	9751.3	9615.5	9340.1	8927.0
7.5°	9220.2	9237.9	9310.6	9373.6	9495.5	9611.5	9649.0	9627.3	9546.6	9251.6	8702.7
10°	8563.0	8580.7	8667.3	8749.9	8915.2	9094.2	9283.1	9322.4	9355.9	9125.7	8486.3
12.5°	7996.5	8014.2	8102.7	8211.0	8403.7	8624.1	8917.2	8982.1	9129.6	9005.7	8313.2
15°	7508.8	7516.6	7603.2	7736.8	7967.0	8250.2	8582.8	8686.9	8913.3	8921.1	8161.7
17.5°	7093.6	7113.4	7166.5	7294.2	7546.1	7896.1	8283.7	8433.2	8698.7	8850.3	8014.2
20°	6839.8	6859.6	6857.5	6928.3	7154.7	7528.4	7984.7	8163.8	8486.3	8777.5	7882.4
22.5°	6790.7	6790.7	6739.5	6729.8	6863.4	7176.2	7674.0	7892.3	8295.5	8745.9	7789.9
25°	6965.8	6957.8	6830.1	6725.8	6731.7	6918.6	7373.0	7632.7	8134.3	8767.6	7740.8
27.5°	7335.5	7325.8	7164.4	6965.8	6806.5	6804.4	7144.8	7424.0	8006.4	8870.0	7760.4
30°	7847.0	7843.0	7668.1	7418.1	7129.0	6863.4	7066.1	7319.9	7923.7	9054.9	7805.7
32.5°	8405.8	8399.9	8267.9	8004.5	7638.6	7129.0	7148.8	7361.2	7947.4	9300.8	7915.9
35°	8997.8	8988.0	8931.0	8700.8	8297.4	7618.8	7420.2	7585.5	8096.8	9668.7	8132.2
37.5°	9639.1	9649.0	9690.3	9469.9	9047.0	8305.4	7874.6	7986.8	8397.8	10168.3	8484.4
40°	10585.4	10583.4	10597.2	10307.9	9900.7	9145.3	8509.9	8545.3	8901.5	10831.2	9019.5
42.5°	12302.7	12182.6	11818.8	11228.6	10819.4	10105.4	9310.6	9273.3	9517.1	11651.5	9769.0
45°	14610.1	14354.4	13410.2	12279.1	11755.8	11187.3	10296.1	10176.2	10331.5	12637.0	10693.5
47.5°	16595.1	16329.5	14993.7	13372.8	12749.3	12214.1	11450.9	11234.5	11285.6	13740.7	11866.0
50°	17269.7	17139.9	15973.3	14324.9	13711.2	13506.6	12790.6	12526.9	12454.1	15017.3	13225.3
52.5°	17035.7	17025.9	16248.8	14942.7	14592.4	14844.3	14476.5	14171.5	13903.9	16362.8	14608.2
55°	16660.0	16709.1	16360.9	15483.5	15471.7	16065.8	16781.9	16528.2	15753.1	17824.5	15800.3
57.5°	15623.2	15833.8	16297.9	16506.5	16990.5	17598.3	18701.9	18851.4	17934.7	18943.8	16789.8
60°	12676.5	13138.8	14657.3	16654.1	18947.7	20462.5	21019.2	21147.0	19724.8	19874.3	18125.4
62.5°	8997.8	9469.9	11395.8	14773.4	18977.2	24225.6	24471.6	23970.0	21695.9	21253.3	20429.1
65°	4776.3	5140.2	6714.0	10664.0	16453.4	25099.1	30508.8	29013.8	25173.9	23966.0	23405.4
67.5°	2443.2	2553.4	3178.9	5218.9	11311.2	22294.0	35920.5	36972.9	31167.9	26657.1	23261.8
69°	2161.9	2226.8	2641.9	3773.0	7243.2	18882.8	36184.1	39705.4	34305.4	26432.9	21139.2
70°	2093.1	2150.1	2527.8	3415.0	5661.5	15835.7	35174.9	39465.3	35108.1	25579.1	19553.7
72.5°	1776.3	1825.5	2250.4	3017.6	4601.2	7860.7	28573.2	33441.8	31504.2	21308.4	14153.8
75°	1188.2	1349.5	2159.9	2828.8	4280.6	4465.4	18837.6	24166.6	22449.3	14372.2	7373.0
77.5°	285.2	306.9	609.7	2250.4	3914.6	3930.4	9688.3	15023.2	12253.5	5122.5	1742.9
80°	153.4	147.5	171.1	446.6	3645.2	3688.5	4361.2	7292.3	4375.0	849.8	574.3
82.5°	108.1	102.2	110.2	186.9	1146.9	3359.9	3155.3	3300.9	1813.7	326.5	257.8
85°	39.4	37.3	60.9	169.2	360.0	1931.8	3241.9	2722.5	1469.4	149.4	188.8
87.5°	13.7	11.8	23.6	92.5	110.2	822.2	2000.6	2057.7	578.3	90.4	88.5
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°	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9
2.5°	8974.2	8852.3	8627.9	8397.8	8185.3	7929.6	7801.7	7675.9	7622.8	7603.2	7510.7
5°	8714.5	8508.0	8031.9	7553.9	7113.4	6645.0	6336.3	6088.4	5942.8	5872.0	5759.8
7.5°	8382.2	8043.7	7321.8	6584.1	5897.6	5220.9	4719.2	4333.7	4068.0	3940.2	3824.2
10°	8059.5	7609.1	6582.1	5576.9	4644.5	3747.5	3055.0	2553.4	2232.7	2085.2	1990.8
12.5°	7770.3	7186.1	5868.1	4595.3	3424.8	2374.4	1670.1	1270.8	1072.2	1003.2	969.7
15°	7512.6	6796.6	5193.3	3662.9	2319.2	1357.3	912.8	777.1	745.5	745.5	741.7
17.5°	7268.7	6414.9	4542.2	2787.5	1455.7	830.2	694.5	676.8	676.8	684.6	684.6
20°	7034.5	6051.0	3912.7	2000.6	916.6	659.1	627.4	623.6	627.4	637.3	637.3
22.5°	6833.9	5720.5	3324.5	1373.1	680.6	594.1	578.3	572.4	574.3	580.2	584.2
25°	6684.5	5441.2	2769.7	930.5	586.1	541.0	523.3	513.4	505.6	505.6	509.4
27.5°	6590.0	5205.1	2232.7	676.8	527.1	491.7	464.3	448.5	430.8	420.9	424.9
30°	6521.1	4980.9	1729.1	552.8	472.1	436.7	401.3	375.8	350.1	338.3	342.3
32.5°	6495.6	4799.9	1292.4	487.9	423.0	383.6	340.4	306.9	279.3	269.6	271.5
35°	6564.4	4656.3	946.1	440.7	383.6	334.5	285.2	247.9	226.2	220.3	222.4
37.5°	6745.4	4579.6	708.2	401.3	348.2	293.2	238.0	202.5	188.8	188.8	190.7
40°	7087.7	4577.6	568.4	373.7	316.8	253.8	196.6	171.1	163.3	167.1	169.2
42.5°	7587.4	4681.9	495.7	348.2	289.2	216.5	163.3	145.6	143.5	147.5	149.4
45°	8270.0	4872.6	456.3	326.5	259.7	181.0	137.6	125.8	125.8	131.7	133.8
47.5°	9106.0	5152.0	423.0	305.0	230.2	151.5	118.0	110.2	112.1	118.0	119.9
50°	10113.2	5504.2	389.5	281.4	208.4	125.8	102.2	96.3	98.4	106.2	108.1
52.5°	11260.0	5978.2	361.9	259.7	181.0	104.3	86.6	82.6	86.6	94.4	96.3
55°	12243.7	6403.1	328.6	242.0	145.6	86.6	70.8	70.8	74.8	84.5	86.6
57.5°	13189.9	6847.8	299.1	208.4	114.0	68.9	59.0	60.9	66.8	76.7	78.6
60°	14578.7	7601.1	263.7	175.1	86.6	55.0	49.1	51.2	59.0	68.9	70.8
62.5°	16937.4	8748.0	228.3	145.6	66.8	43.2	39.4	43.2	53.1	64.9	66.8
65°	19065.7	9214.2	186.9	122.0	51.2	33.5	33.5	39.4	51.2	63.0	64.9
67.5°	17879.6	7756.6	145.6	96.3	39.4	25.5	27.6	37.3	49.1	63.0	64.9
69°	15812.1	6342.2	123.9	76.7	33.5	23.6	25.5	37.3	49.1	60.9	63.0
70°	14201.0	5354.6	110.2	64.9	29.5	23.6	25.5	35.4	49.1	60.9	63.0
72.5°	9511.2	2891.8	88.5	47.2	27.6	21.7	21.7	35.4	47.2	59.0	60.9
75°	4087.8	798.6	70.8	33.5	23.6	19.6	19.6	33.5	45.3	57.1	60.9
77.5°	747.6	202.5	57.1	29.5	23.6	19.6	17.7	31.4	43.2	55.0	57.1
80°	297.0	100.3	45.3	25.5	21.7	17.7	15.8	29.5	41.3	53.1	55.0
82.5°	178.9	57.1	37.3	23.6	21.7	15.8	13.7	25.5	39.4	51.2	53.1
85°	145.6	39.4	29.5	23.6	19.6	15.8	11.8	23.6	35.4	49.1	51.2
87.5°	70.8	27.6	27.6	21.7	19.6	15.8	11.8	21.7	33.5	47.2	49.1
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)