

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: P192858

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192858
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-10-LED-E1-SL3-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA 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: 32074.2 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 323
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

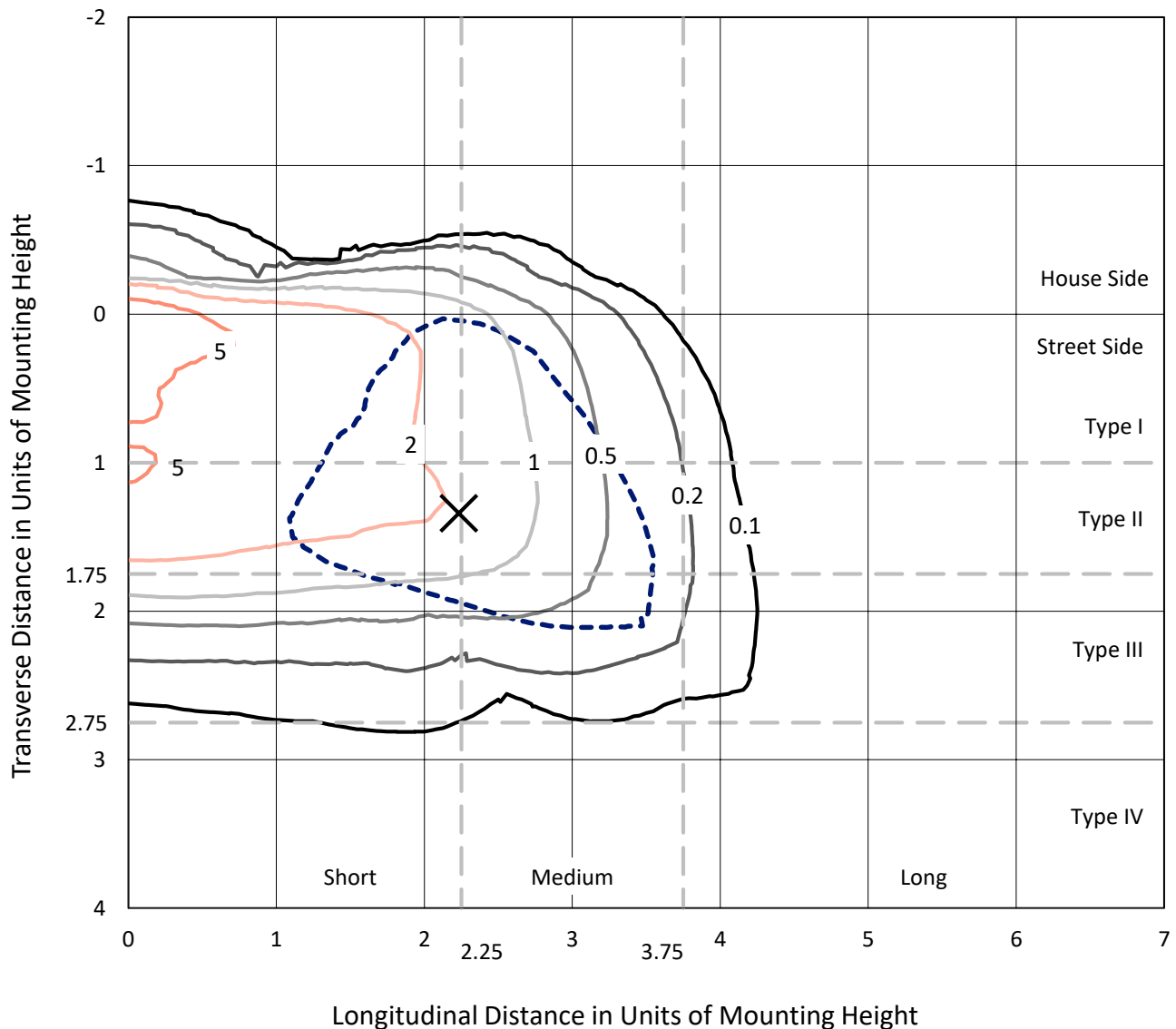


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

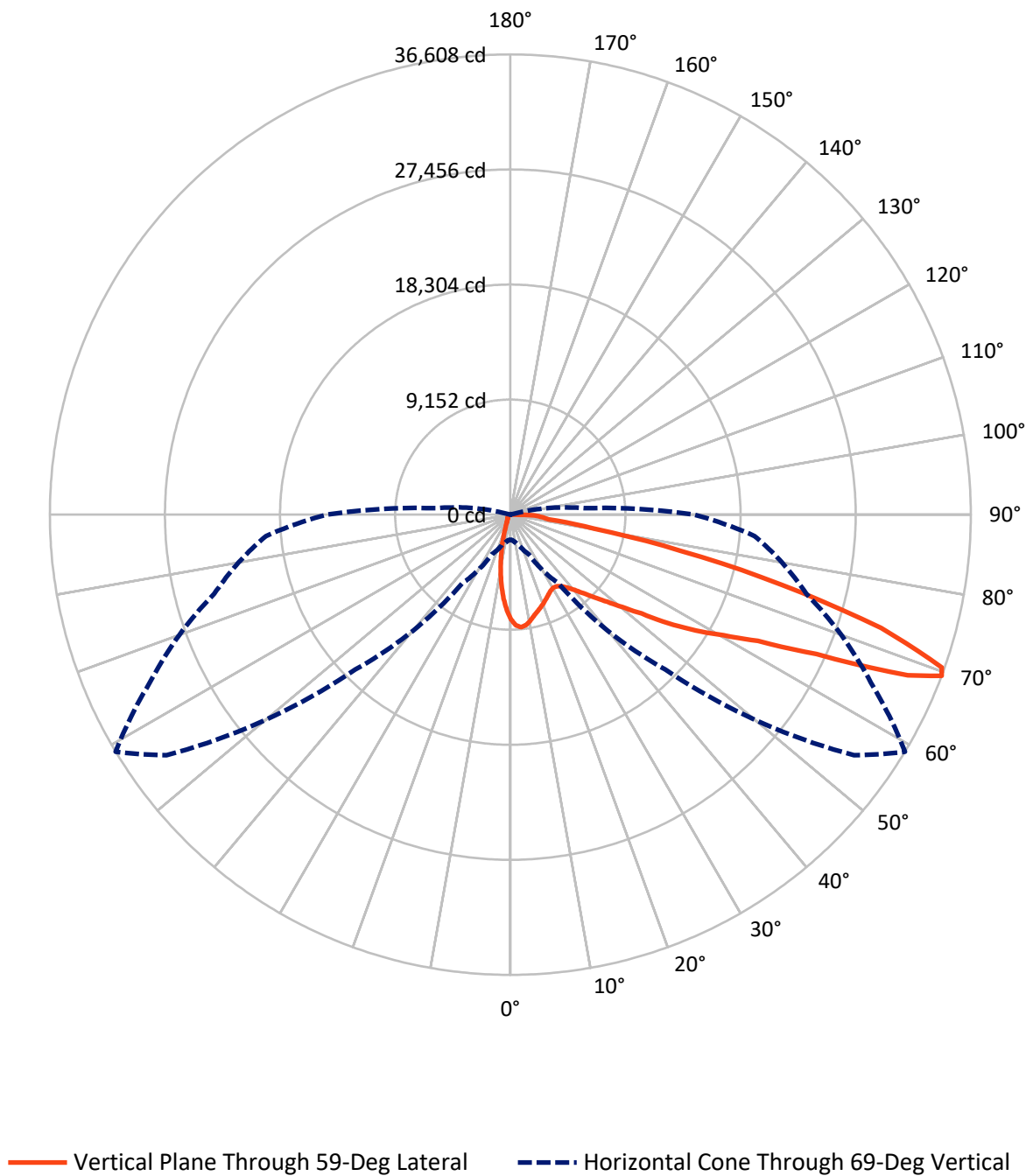


Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2612.0	0.0	2612.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	29462.2	0.0	29462.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	32074.2	0.0	32074.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.6	2.1
10°-20°	1400.2	4.4
20°-30°	1884.2	5.9
30°-40°	2735.7	8.5
40°-50°	4555.1	14.2
50°-60°	7105.9	22.2
60°-70°	8793.0	27.4
70°-80°	4456.2	13.9
80°-90°	466.3	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°	32074.2	100.0
0°-180°	32074.2	100.0

Coefficient of Utilization



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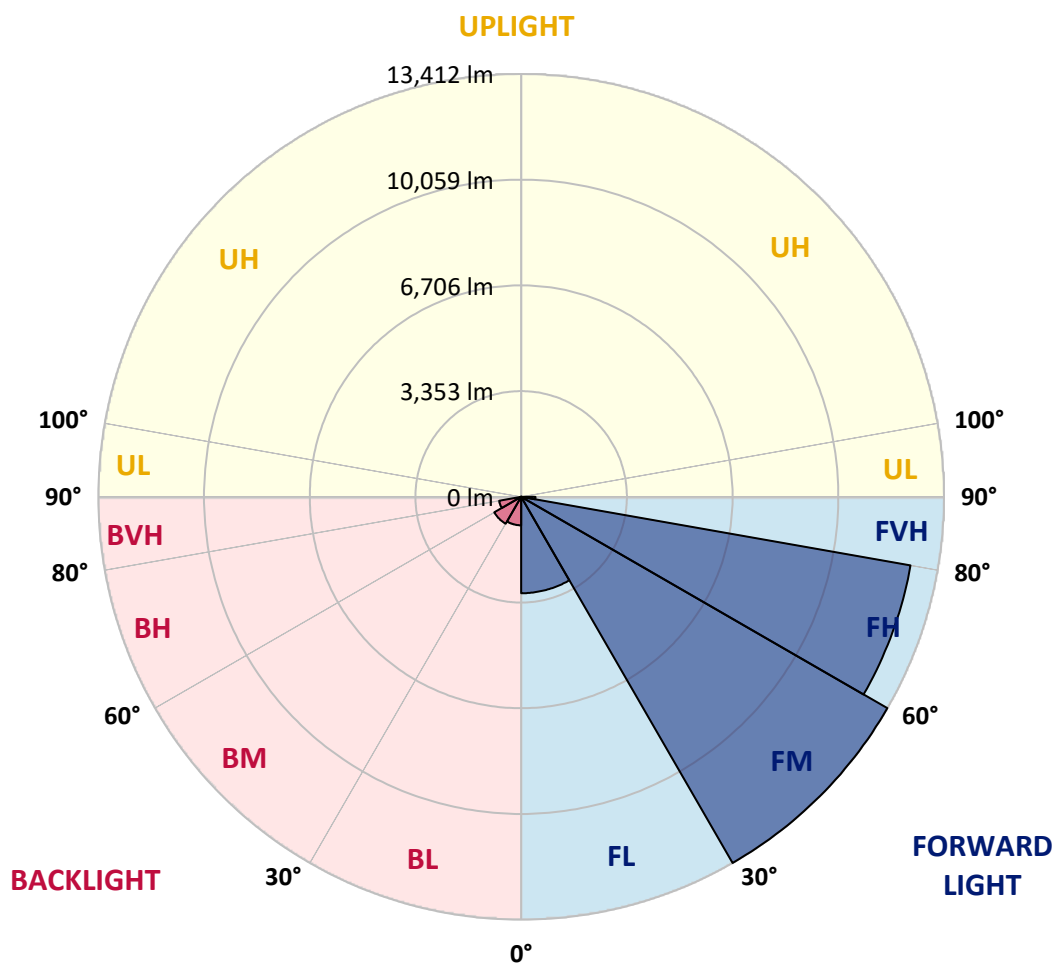
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3057.9	9.5			
FM	(30°-60°)	13412.5	41.8			
FH	(60°-80°)	12539.8	39.1			G5
FVH	(80°-90°)	451.9	1.4			G3/500
BL	(0°-30°)	904.1	2.8	B2/1000		
BM	(30°-60°)	984.2	3.1	B1/1000		
BH	(60°-80°)	709.4	2.2	B2/1000		G2/1000
BVH	(80°-90°)	14.4	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°	8348.5	8348.5	8348.5	8348.5	8348.5	8348.5	8348.5	8348.5	8348.5	8348.5	8348.5
2.5°	9150.1	9146.5	9106.5	9088.4	9055.9	8986.9	8879.8	8823.7	8733.0	8575.2	8362.9
5°	9066.7	9110.2	9133.7	9135.6	9159.2	9133.7	9037.7	8990.5	8865.4	8611.5	8230.6
7.5°	8500.8	8517.1	8584.3	8642.3	8754.7	8861.7	8896.2	8876.2	8801.9	8529.9	8023.8
10°	7895.1	7911.4	7991.1	8067.3	8219.7	8384.8	8558.9	8595.1	8625.9	8413.7	7824.3
12.5°	7372.7	7388.9	7470.6	7570.3	7748.1	7951.3	8221.5	8281.3	8417.4	8303.1	7664.6
15°	6922.8	6930.1	7010.0	7133.3	7345.5	7606.6	7913.2	8009.2	8217.8	8225.1	7525.0
17.5°	6540.2	6558.3	6607.4	6725.2	6957.3	7280.2	7637.4	7775.3	8020.1	8159.8	7388.9
20°	6306.2	6324.4	6322.5	6387.9	6596.4	6941.0	7361.8	7526.9	7824.3	8092.8	7267.5
22.5°	6260.9	6260.9	6213.7	6204.7	6328.0	6616.4	7075.2	7276.5	7648.3	8063.7	7182.2
25°	6422.3	6415.0	6297.1	6201.0	6206.5	6378.8	6797.8	7037.2	7499.7	8083.6	7137.0
27.5°	6763.2	6754.2	6605.5	6422.3	6275.5	6273.5	6587.4	6844.9	7381.8	8177.9	7155.1
30°	7234.8	7231.3	7069.8	6839.4	6572.8	6328.0	6514.8	6748.7	7305.6	8348.5	7196.8
32.5°	7750.0	7744.6	7623.0	7379.9	7042.7	6572.8	6590.9	6786.8	7327.4	8575.2	7298.3
35°	8295.8	8286.8	8234.3	8022.1	7650.3	7024.5	6841.3	6993.5	7465.1	8914.4	7497.8
37.5°	8887.1	8896.2	8934.2	8731.1	8341.2	7657.4	7260.3	7363.6	7742.6	9375.0	7822.5
40°	9759.5	9757.7	9770.4	9503.8	9128.4	8431.9	7846.0	7878.6	8207.0	9986.2	8315.8
42.5°	11342.9	11232.3	10896.8	10352.7	9975.4	9317.0	8584.3	8549.7	8774.7	10742.6	9006.8
45°	13470.3	13234.6	12364.0	11321.1	10838.6	10314.5	9492.9	9382.3	9525.6	11651.2	9859.2
47.5°	15300.3	15055.5	13824.0	12329.6	11754.5	11261.3	10557.5	10358.0	10405.2	12668.7	10940.2
50°	15922.5	15802.7	14727.3	13207.4	12641.6	12452.9	11792.7	11549.7	11482.5	13845.8	12193.6
52.5°	15706.7	15697.6	14981.2	13776.8	13453.9	13686.2	13347.0	13065.9	12819.3	15086.3	13468.5
55°	15360.2	15405.5	15084.6	14275.6	14264.8	14812.5	15472.6	15238.7	14524.1	16433.9	14567.6
57.5°	14404.4	14598.4	15026.5	15218.7	15664.9	16225.3	17242.9	17380.6	16535.6	17465.9	15480.0
60°	11687.5	12113.7	13513.8	15354.7	17469.6	18866.2	19379.5	19497.4	18185.9	18323.8	16711.4
62.5°	8295.8	8731.1	10506.8	13621.0	17496.8	22335.7	22562.4	22099.9	20003.3	19595.2	18835.3
65°	4403.7	4739.2	6190.2	9832.0	15169.8	23141.0	28128.7	26750.3	23210.0	22096.3	21579.4
67.5°	2252.6	2354.2	2931.0	4811.8	10428.8	20554.6	33118.1	34088.5	28736.3	24577.5	21447.0
69°	1993.2	2053.1	2435.8	3478.7	6678.0	17409.7	33361.2	36607.8	31629.1	24370.8	19490.0
70°	1929.7	1982.4	2330.6	3148.7	5219.9	14600.4	32430.8	36386.4	32369.0	23583.5	18028.3
72.5°	1637.8	1683.1	2074.9	2782.2	4242.2	7247.5	26343.9	30832.9	29046.3	19646.0	13049.6
75°	1095.5	1244.3	1991.5	2608.1	3946.7	4117.1	17368.0	22281.2	20698.0	13250.9	6797.8
77.5°	263.0	283.0	562.2	2074.9	3609.3	3623.8	8932.5	13851.3	11297.5	4722.8	1606.9
80°	141.5	136.0	157.8	411.7	3360.9	3400.7	4021.0	6723.4	4033.7	783.5	529.6
82.5°	99.8	94.3	101.6	172.3	1057.4	3097.8	2909.1	3043.4	1672.2	301.1	237.6
85°	36.3	34.4	56.3	156.0	331.9	1781.0	2989.0	2510.1	1354.9	137.8	174.2
87.5°	12.7	10.9	21.8	85.2	101.6	758.1	1844.6	1897.2	533.1	83.5	81.6
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°	8348.5	8348.5	8348.5	8348.5	8348.5	8348.5	8348.5	8348.5	8348.5	8348.5	8348.5
2.5°	8274.1	8161.6	7954.8	7742.6	7546.7	7311.0	7193.1	7077.0	7028.1	7010.0	6924.8
5°	8034.7	7844.3	7405.4	6964.6	6558.3	6126.7	5841.9	5613.4	5479.2	5413.9	5310.5
7.5°	7728.1	7416.2	6750.6	6070.5	5437.5	4813.5	4351.0	3995.6	3750.8	3632.9	3525.8
10°	7430.7	7015.4	6068.6	5141.8	4282.2	3455.1	2816.7	2354.2	2058.6	1922.5	1835.4
12.5°	7164.1	6625.5	5410.3	4236.8	3157.7	2189.1	1539.8	1171.7	988.5	925.0	894.2
15°	6926.5	6266.3	4788.2	3377.1	2138.3	1251.4	841.6	716.4	687.4	687.4	683.8
17.5°	6701.6	5914.4	4187.8	2570.0	1342.1	765.4	640.3	623.9	623.9	631.2	631.2
20°	6485.7	5578.9	3607.4	1844.6	845.2	607.6	578.5	574.9	578.5	587.6	587.6
22.5°	6300.8	5274.3	3065.2	1266.0	627.5	547.7	533.1	527.8	529.6	535.1	538.6
25°	6163.0	5016.6	2553.7	857.9	540.5	498.8	482.5	473.4	466.1	466.1	469.7
27.5°	6075.9	4799.0	2058.6	623.9	486.1	453.4	428.1	413.5	397.1	388.1	391.8
30°	6012.4	4592.2	1594.2	509.7	435.3	402.6	370.0	346.5	322.9	311.9	315.5
32.5°	5988.8	4425.4	1191.6	449.8	389.9	353.7	313.8	283.0	257.6	248.4	250.3
35°	6052.3	4293.1	872.4	406.2	353.7	308.3	263.0	228.6	208.5	203.1	205.0
37.5°	6219.1	4222.4	653.0	370.0	321.0	270.2	219.5	186.9	174.2	174.2	175.9
40°	6534.8	4220.4	524.1	344.6	292.0	234.0	181.4	157.8	150.6	154.2	156.0
42.5°	6995.5	4316.7	457.0	321.0	266.6	199.5	150.6	134.2	132.4	136.0	137.8
45°	7624.7	4492.5	420.7	301.1	239.4	166.8	127.0	116.1	116.1	121.5	123.4
47.5°	8395.6	4750.0	389.9	281.2	212.2	139.7	108.8	101.6	103.4	108.8	110.7
50°	9324.1	5074.8	359.1	259.4	192.3	116.1	94.3	88.8	90.6	97.9	99.8
52.5°	10381.6	5511.8	333.7	239.4	166.8	96.1	79.8	76.2	79.8	87.1	88.8
55°	11288.4	5903.6	302.8	223.1	134.2	79.8	65.3	65.3	69.0	78.0	79.8
57.5°	12160.9	6313.4	275.7	192.3	105.2	63.5	54.4	56.3	61.6	70.7	72.5
60°	13441.3	7008.1	243.0	161.3	79.8	50.8	45.4	47.2	54.4	63.5	65.3
62.5°	15616.0	8065.5	210.5	134.2	61.6	39.9	36.3	39.9	48.9	59.9	61.6
65°	17578.4	8495.4	172.3	112.4	47.2	30.8	30.8	36.3	47.2	58.0	59.9
67.5°	16484.7	7151.4	134.2	88.8	36.3	23.6	25.3	34.4	45.4	58.0	59.9
69°	14578.5	5847.3	114.2	70.7	30.8	21.8	23.6	34.4	45.4	56.3	58.0
70°	13093.1	4936.9	101.6	59.9	27.2	21.8	23.6	32.7	45.4	56.3	58.0
72.5°	8769.2	2666.2	81.6	43.4	25.3	20.0	20.0	32.7	43.4	54.4	56.3
75°	3768.9	736.4	65.3	30.8	21.8	18.1	18.1	30.8	41.7	52.6	56.3
77.5°	689.2	186.9	52.6	27.2	21.8	18.1	16.3	29.1	39.9	50.8	52.6
80°	273.9	92.6	41.7	23.6	20.0	16.3	14.5	27.2	38.1	48.9	50.8
82.5°	165.1	52.6	34.4	21.8	20.0	14.5	12.7	23.6	36.3	47.2	48.9
85°	134.2	36.3	27.2	21.8	18.1	14.5	10.9	21.8	32.7	45.4	47.2
87.5°	65.3	25.3	25.3	20.0	18.1	14.5	10.9	20.0	30.8	43.4	45.4
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)