

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: P194465

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7060-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194465
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-SL3-7060-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 800mA 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: 29061 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 295
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



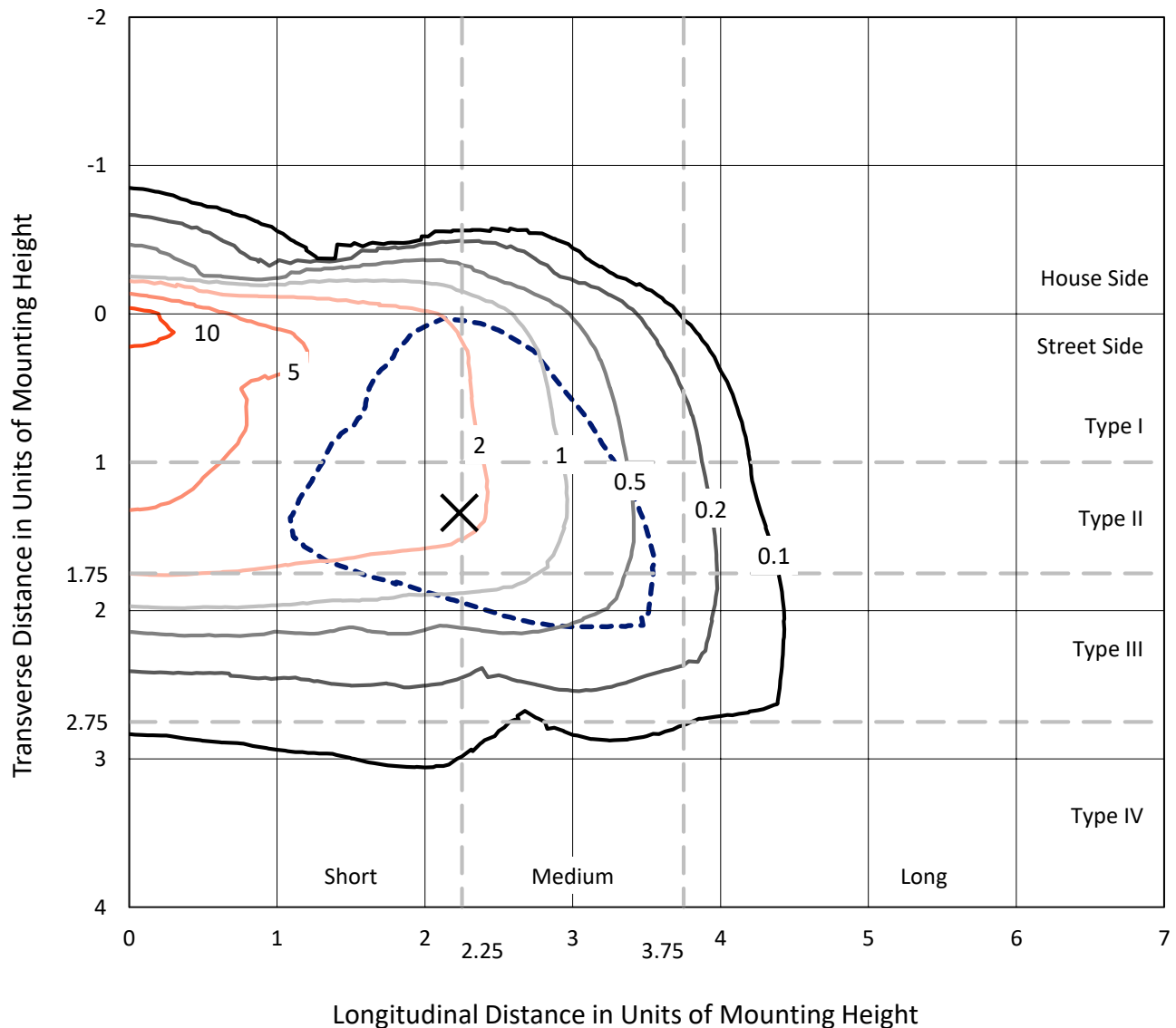
REPORT NUMBER: P194465

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL3-7060-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

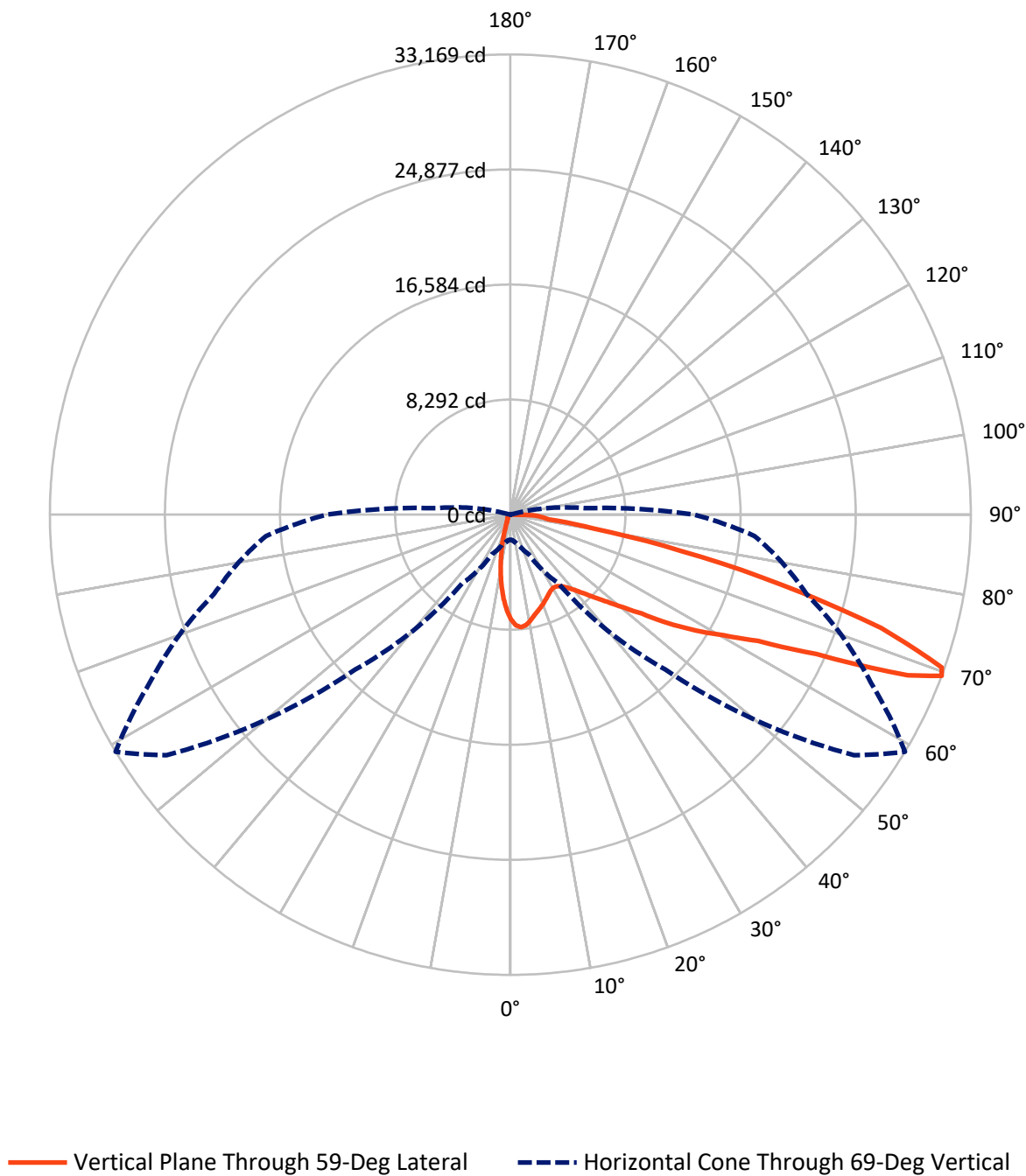


Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
Type III - Short - Non-Cutoff

REPORT NUMBER: P194465

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL3-7060-800-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2366.6	0.0	2366.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	26694.4	0.0	26694.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	29061.0	0.0	29061.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.0	2.1
10°-20°	1268.7	4.4
20°-30°	1707.2	5.9
30°-40°	2478.7	8.5
40°-50°	4127.2	14.2
50°-60°	6438.3	22.2
60°-70°	7966.9	27.4
70°-80°	4037.6	13.9
80°-90°	422.5	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°	29061.0	100.0
0°-180°	29061.0	100.0

Coefficient of Utilization



REPORT NUMBER: P194465

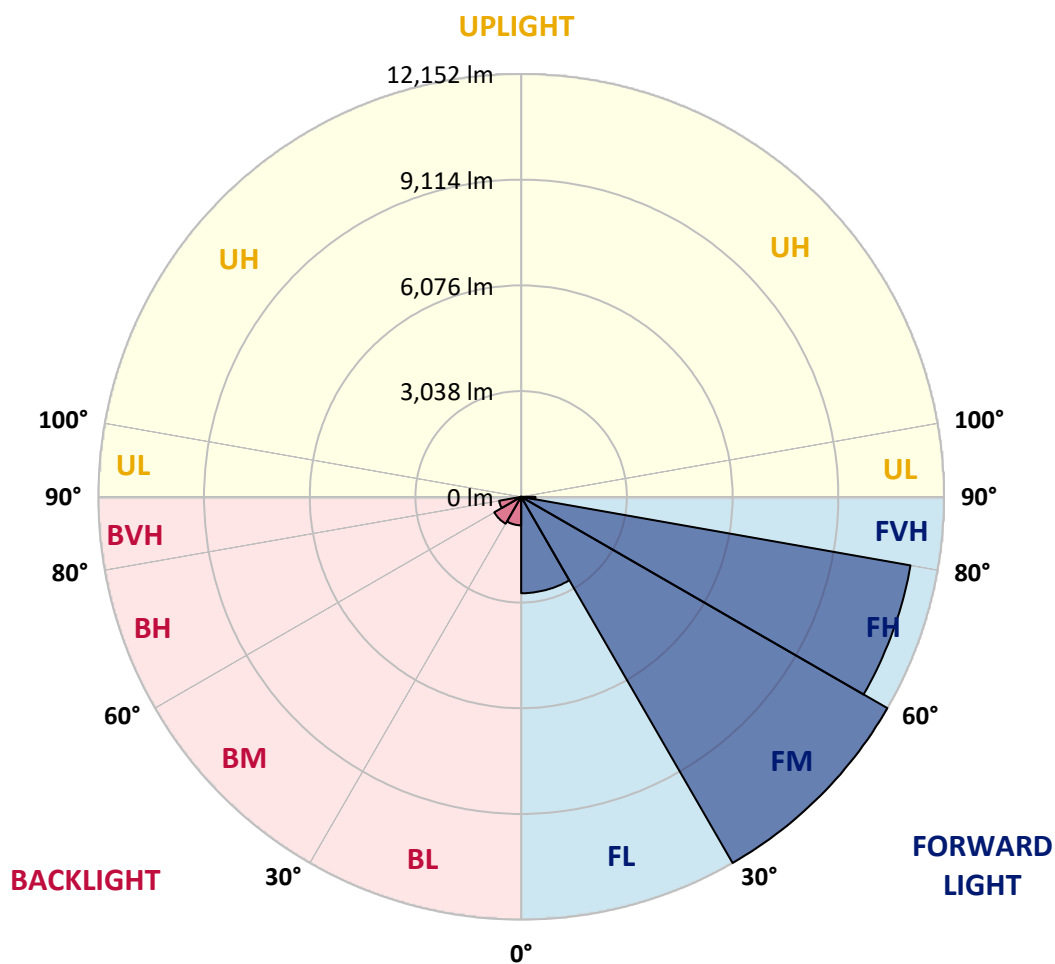
CATALOG NUMBER: GLEON-AF-07-LED-E1-SL3-7060-800-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2770.6	9.5			
FM	(30°-60°)	12152.5	41.8			
FH	(60°-80°)	11361.8	39.1			G4/12000
FVH	(80°-90°)	409.5	1.4			G3/500
BL	(0°-30°)	819.2	2.8	B2/1000		
BM	(30°-60°)	891.8	3.1	B1/1000		
BH	(60°-80°)	642.7	2.2	B2/1000		G2/1000
BVH	(80°-90°)	13.0	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



REPORT NUMBER: P194465

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL3-7060-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2
2.5°	8290.5	8287.2	8251.1	8234.6	8205.1	8142.6	8045.7	7994.7	7912.6	7769.6	7577.3
5°	8214.9	8254.4	8275.7	8277.4	8298.7	8275.7	8188.6	8145.9	8032.5	7802.5	7457.4
7.5°	7702.2	7717.0	7777.8	7830.4	7932.3	8029.2	8060.5	8042.4	7975.0	7728.5	7270.0
10°	7153.3	7168.1	7240.4	7309.5	7447.5	7597.0	7754.8	7787.7	7815.6	7623.3	7089.3
12.5°	6680.1	6694.9	6768.8	6859.2	7020.2	7204.3	7449.1	7503.4	7626.6	7523.1	6944.6
15°	6272.5	6279.1	6351.4	6463.2	6655.4	6892.1	7169.8	7256.9	7445.9	7452.4	6818.1
17.5°	5925.8	5942.2	5986.6	6093.4	6303.8	6596.3	6920.0	7044.9	7266.7	7393.3	6694.9
20°	5713.8	5730.2	5728.6	5787.8	5976.7	6289.0	6670.2	6819.8	7089.3	7332.5	6584.8
22.5°	5672.7	5672.7	5630.0	5621.8	5733.5	5994.8	6410.6	6593.0	6929.9	7306.2	6507.5
25°	5819.0	5812.4	5705.6	5618.5	5623.4	5779.5	6159.1	6376.1	6795.1	7324.3	6466.4
27.5°	6127.9	6119.7	5985.0	5819.0	5685.9	5684.2	5968.5	6201.9	6688.3	7409.7	6482.9
30°	6555.2	6551.9	6405.6	6196.9	5955.4	5733.5	5902.8	6114.8	6619.3	7564.2	6520.7
32.5°	7021.9	7017.0	6906.9	6686.6	6381.0	5955.4	5971.8	6149.3	6639.0	7769.6	6612.7
35°	7516.5	7508.3	7460.6	7268.4	6931.5	6364.6	6198.6	6336.6	6763.9	8076.9	6793.5
37.5°	8052.2	8060.5	8095.0	7910.9	7557.6	6938.1	6578.2	6671.9	7015.3	8494.3	7087.6
40°	8842.7	8841.0	8852.5	8611.0	8270.8	7639.8	7109.0	7138.6	7436.0	9048.1	7534.6
42.5°	10277.3	10177.0	9873.0	9380.0	9038.2	8441.7	7777.8	7746.6	7950.4	9733.4	8160.7
45°	12204.9	11991.3	11202.5	10257.6	9820.4	9345.5	8601.1	8500.9	8630.7	10556.7	8933.1
47.5°	13863.0	13641.2	12525.3	11171.3	10650.3	10203.3	9565.7	9385.0	9427.7	11478.6	9912.5
50°	14426.7	14318.2	13343.7	11966.6	11453.9	11283.0	10684.8	10464.6	10403.8	12545.1	11048.0
52.5°	14231.1	14222.9	13573.8	12482.6	12190.1	12400.5	12093.2	11838.4	11614.9	13669.1	12203.3
55°	13917.2	13958.3	13667.4	12934.5	12924.7	13420.9	14019.1	13807.1	13159.7	14890.1	13199.1
57.5°	13051.2	13227.0	13614.9	13789.1	14193.3	14701.1	15623.0	15747.9	14982.1	15825.1	14025.7
60°	10589.5	10975.7	12244.3	13912.3	15828.4	17093.8	17558.8	17665.6	16477.5	16602.4	15141.5
62.5°	7516.5	7910.9	9519.7	12341.3	15853.1	20237.4	20442.8	20023.8	18124.1	17754.4	17065.8
65°	3990.0	4294.0	5608.6	8908.4	13744.7	20967.0	25486.2	24237.2	21029.5	20020.5	19552.2
67.5°	2041.0	2133.0	2655.6	4359.7	9449.1	18623.7	30006.9	30886.1	26036.7	22268.6	19432.2
69°	1806.0	1860.2	2207.0	3151.9	6050.7	15774.2	30227.1	33168.7	28657.8	22081.2	17659.1
70°	1748.5	1796.1	2111.7	2852.8	4729.5	13228.7	29384.1	32968.2	29328.2	21368.0	16334.5
72.5°	1483.9	1525.0	1880.0	2520.8	3843.7	6566.7	23869.1	27936.3	26317.7	17800.4	11823.6
75°	992.6	1127.3	1804.4	2363.1	3575.9	3730.3	15736.4	20188.1	18753.5	12006.1	6159.1
77.5°	238.3	256.4	509.4	1880.0	3270.2	3283.3	8093.3	12550.0	10236.2	4279.2	1456.0
80°	128.2	123.2	143.0	373.0	3045.1	3081.2	3643.2	6091.8	3654.7	709.9	479.8
82.5°	90.4	85.5	92.0	156.1	958.1	2806.8	2635.9	2757.5	1515.1	272.8	215.3
85°	32.9	31.2	50.9	141.3	300.7	1613.7	2708.2	2274.3	1227.6	124.9	157.8
87.5°	11.5	9.9	19.7	77.2	92.0	686.9	1671.3	1718.9	483.1	75.6	73.9
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: P194465

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL3-7060-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2	7564.2
2.5°	7496.8	7394.9	7207.6	7015.3	6837.8	6624.2	6517.4	6412.2	6367.8	6351.4	6274.2
5°	7279.9	7107.3	6709.7	6310.3	5942.2	5551.1	5293.1	5086.1	4964.5	4905.3	4811.6
7.5°	7002.2	6719.5	6116.4	5500.2	4926.7	4361.4	3942.3	3620.2	3398.4	3291.6	3194.6
10°	6732.7	6356.3	5498.5	4658.8	3879.9	3130.5	2552.1	2133.0	1865.2	1741.9	1663.0
12.5°	6491.1	6003.0	4902.0	3838.8	2861.0	1983.5	1395.2	1061.6	895.6	838.1	810.2
15°	6275.8	5677.7	4338.4	3059.9	1937.5	1133.9	762.5	649.1	622.8	622.8	619.5
17.5°	6072.0	5358.8	3794.4	2328.6	1216.1	693.5	580.1	565.3	565.3	571.9	571.9
20°	5876.5	5054.8	3268.6	1671.3	765.8	550.5	524.2	520.9	524.2	532.4	532.4
22.5°	5708.9	4778.8	2777.2	1147.0	568.6	496.3	483.1	478.2	479.8	484.8	488.1
25°	5584.0	4545.4	2313.8	777.3	489.7	451.9	437.1	428.9	422.3	422.3	425.6
27.5°	5505.1	4348.2	1865.2	565.3	440.4	410.8	387.8	374.7	359.9	351.7	355.0
30°	5447.6	4160.9	1444.5	461.8	394.4	364.8	335.2	313.9	292.5	282.7	285.9
32.5°	5426.2	4009.7	1079.7	407.5	353.3	320.4	284.3	256.4	233.4	225.1	226.8
35°	5483.7	3889.7	790.4	368.1	320.4	279.4	238.3	207.1	189.0	184.1	185.7
37.5°	5634.9	3825.6	591.6	335.2	290.9	244.9	198.8	169.3	157.8	157.8	159.4
40°	5920.9	3824.0	474.9	312.2	264.6	212.0	164.3	143.0	136.4	139.7	141.3
42.5°	6338.3	3911.1	414.1	290.9	241.6	180.8	136.4	121.6	120.0	123.2	124.9
45°	6908.5	4070.5	381.2	272.8	216.9	151.2	115.0	105.2	105.2	110.1	111.7
47.5°	7606.9	4303.8	353.3	254.7	192.3	126.5	98.6	92.0	93.7	98.6	100.2
50°	8448.3	4598.0	325.4	235.0	174.2	105.2	85.5	80.5	82.2	88.7	90.4
52.5°	9406.3	4994.0	302.4	216.9	151.2	87.1	72.3	69.0	72.3	78.9	80.5
55°	10228.0	5349.0	274.4	202.1	121.6	72.3	59.2	59.2	62.4	70.7	72.3
57.5°	11018.4	5720.4	249.8	174.2	95.3	57.5	49.3	50.9	55.9	64.1	65.7
60°	12178.6	6349.8	220.2	146.3	72.3	46.0	41.1	42.7	49.3	57.5	59.2
62.5°	14148.9	7307.8	190.6	121.6	55.9	36.2	32.9	36.2	44.4	54.2	55.9
65°	15927.0	7697.3	156.1	101.9	42.7	27.9	27.9	32.9	42.7	52.6	54.2
67.5°	14936.1	6479.6	121.6	80.5	32.9	21.4	23.0	31.2	41.1	52.6	54.2
69°	13209.0	5298.0	103.5	64.1	27.9	19.7	21.4	31.2	41.1	50.9	52.6
70°	11863.1	4473.1	92.0	54.2	24.6	19.7	21.4	29.6	41.1	50.9	52.6
72.5°	7945.4	2415.7	73.9	39.4	23.0	18.1	18.1	29.6	39.4	49.3	50.9
75°	3414.8	667.2	59.2	27.9	19.7	16.4	16.4	27.9	37.8	47.7	50.9
77.5°	624.5	169.3	47.7	24.6	19.7	16.4	14.8	26.3	36.2	46.0	47.7
80°	248.1	83.8	37.8	21.4	18.1	14.8	13.1	24.6	34.5	44.4	46.0
82.5°	149.5	47.7	31.2	19.7	18.1	13.1	11.5	21.4	32.9	42.7	44.4
85°	121.6	32.9	24.6	19.7	16.4	13.1	9.9	19.7	29.6	41.1	42.7
87.5°	59.2	23.0	23.0	18.1	16.4	13.1	9.9	18.1	27.9	39.4	41.1
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)