

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: P192788

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38133.7 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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

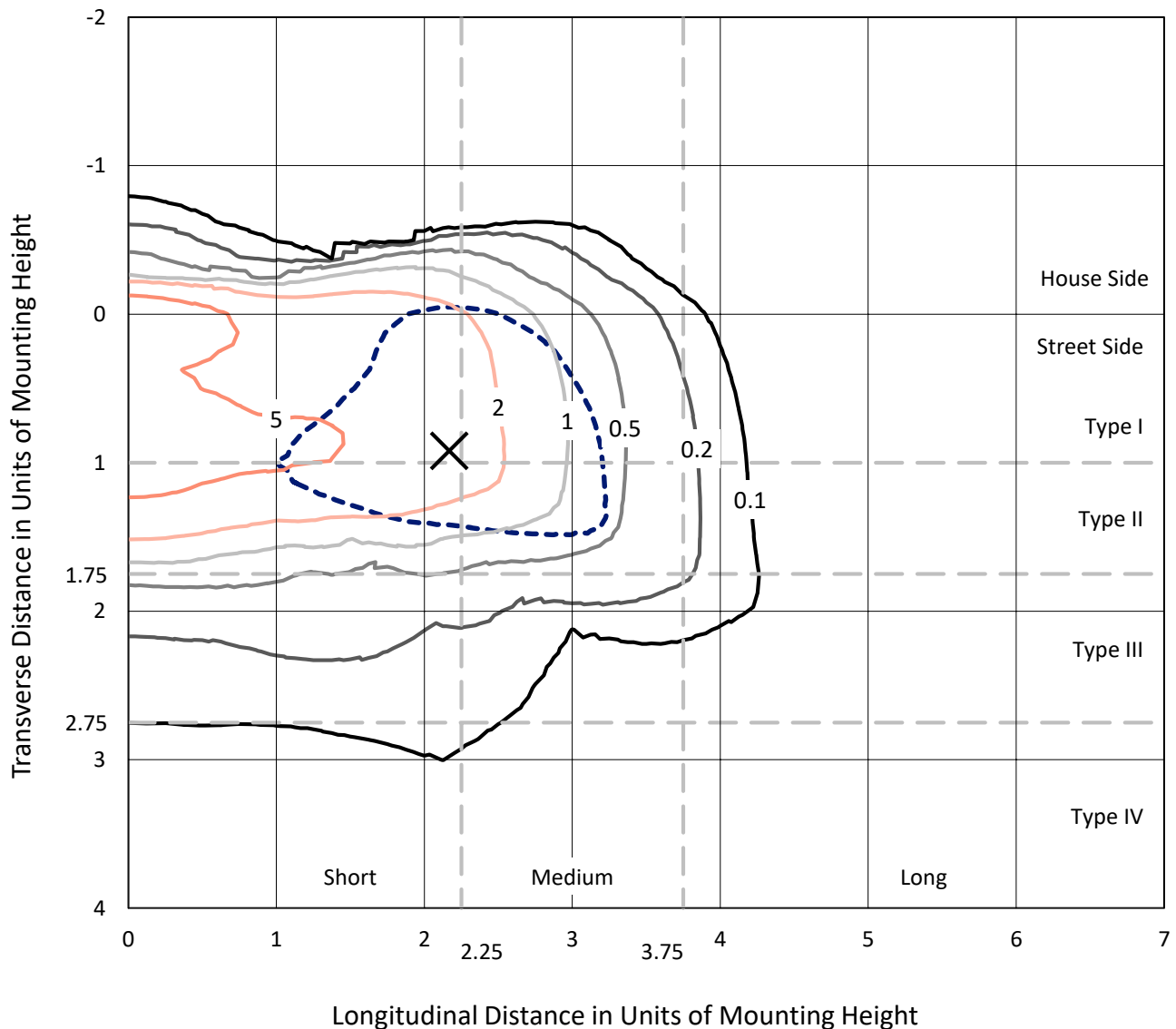


REPORT NUMBER: P192788

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-7030-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

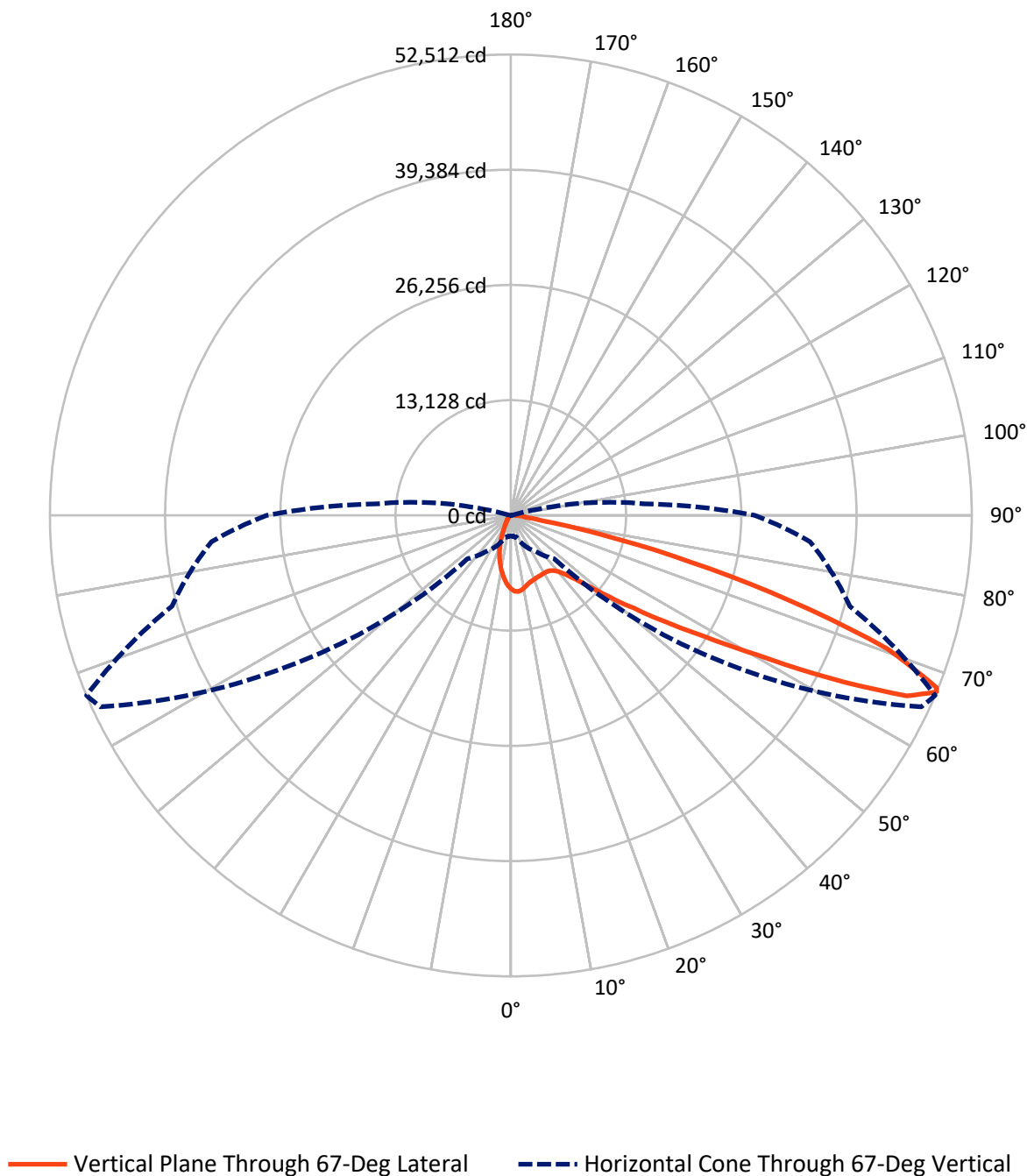


Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
Type II - Short - Semi-Cutoff

REPORT NUMBER: P192788

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-7030-800-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3959.4	0.0	3959.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	34174.2	0.0	34174.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	38133.7	0.0	38133.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.3	1.8
10°-20°	1456.5	3.8
20°-30°	2117.6	5.6
30°-40°	3303.5	8.7
40°-50°	5851.9	15.3
50°-60°	9260.1	24.3
60°-70°	10606.1	27.8
70°-80°	4399.4	11.5
80°-90°	454.4	1.2
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°	38133.7	100.0
0°-180°	38133.7	100.0

Coefficient of Utilization



REPORT NUMBER: P192788

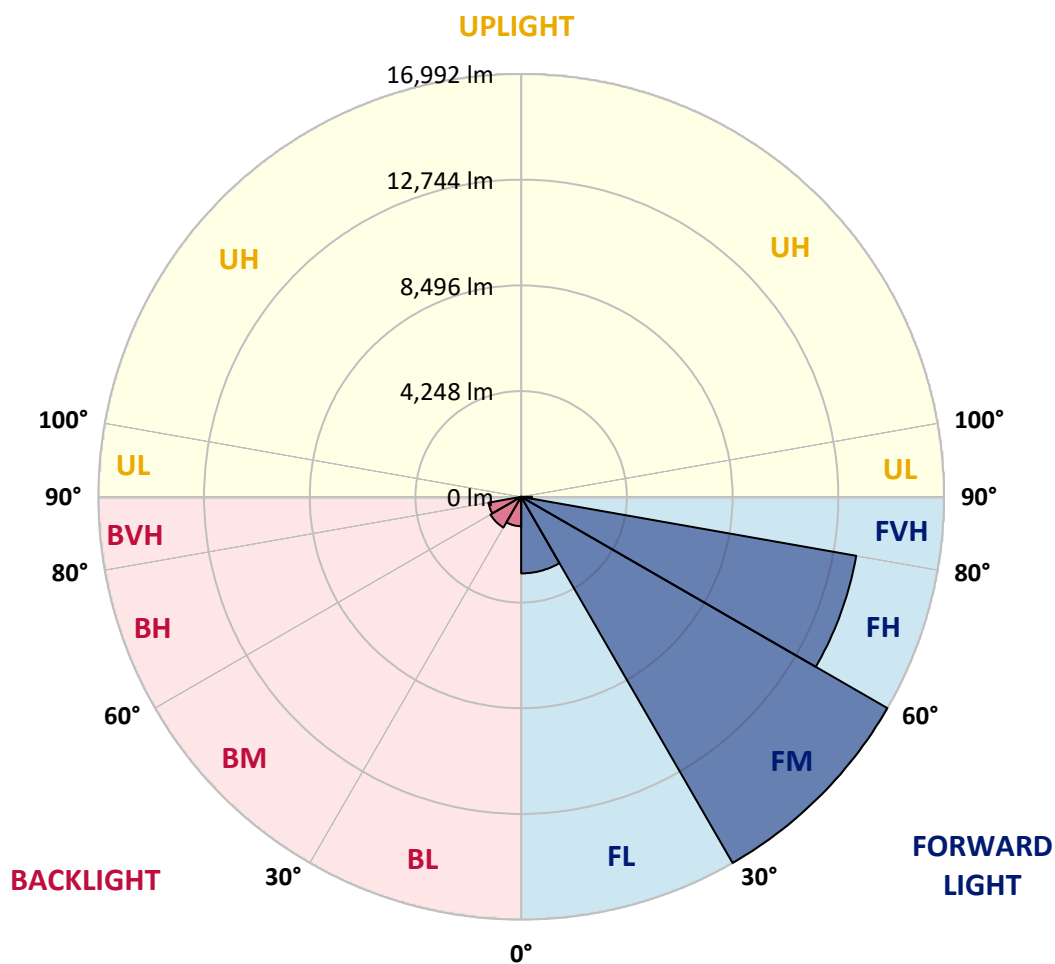
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3076.8	8.1			
FM	(30°-60°)	16992.5	44.6			
FH	(60°-80°)	13671.0	35.9			G5
FVH	(80°-90°)	434.0	1.1			G3/500
BL	(0°-30°)	1181.5	3.1	B3/2500		
BM	(30°-60°)	1423.0	3.7	B2/2500		
BH	(60°-80°)	1334.5	3.5	B3/2500		G3/2500
BVH	(80°-90°)	20.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



REPORT NUMBER: P192788

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-7030-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8409.9	8409.9	8409.9	8409.9	8409.9	8409.9	8409.9	8409.9	8409.9	8409.9	8409.9
2.5°	8694.7	8712.4	8710.1	8723.5	8754.6	8756.9	8725.8	8665.7	8652.4	8574.4	8438.7
5°	8018.4	8069.6	8100.7	8227.4	8369.8	8541.2	8670.2	8716.8	8710.1	8654.5	8449.9
7.5°	7246.6	7297.8	7333.4	7482.4	7671.4	7965.0	8300.9	8576.8	8601.2	8661.2	8441.1
10°	6732.8	6741.8	6790.7	6932.9	7131.0	7431.2	7831.6	8314.2	8387.7	8607.9	8418.8
12.5°	6310.2	6316.9	6381.4	6534.8	6746.1	7048.7	7469.1	8027.3	8140.8	8541.2	8414.4
15°	6010.0	6034.4	6092.2	6252.4	6477.0	6777.3	7208.8	7816.0	7951.7	8516.6	8454.4
17.5°	5909.9	5936.5	5954.3	6070.0	6274.6	6568.2	7010.8	7678.0	7831.6	8530.0	8532.2
20°	6014.4	6034.4	5994.4	6023.3	6150.1	6412.5	6844.0	7560.2	7742.6	8545.6	8632.3
22.5°	6403.5	6412.5	6303.5	6176.8	6154.5	6299.2	6712.8	7466.8	7662.6	8587.8	8750.2
25°	7070.9	7055.3	6877.4	6603.7	6345.8	6279.0	6634.9	7409.0	7622.5	8632.3	8872.5
27.5°	7876.1	7898.4	7653.6	7255.5	6763.9	6412.5	6623.9	7384.5	7604.7	8663.5	8979.3
30°	8854.7	8885.8	8605.6	8105.2	7400.0	6741.8	6726.1	7380.0	7593.6	8643.4	8988.2
32.5°	9853.4	9891.2	9671.1	9155.1	8249.7	7293.3	6957.4	7429.0	7615.8	8574.4	8937.1
35°	10898.8	10952.1	10805.4	10362.8	9401.9	8089.5	7364.5	7578.0	7720.4	8567.8	8885.8
37.5°	12342.4	12391.3	12115.4	11646.2	10796.5	9157.2	8018.4	7858.3	7967.3	8674.5	8899.1
40°	14497.6	14490.9	13779.2	13060.8	12329.1	10514.0	8937.1	8365.4	8421.0	8997.1	9063.8
42.5°	16846.4	16835.3	15783.3	14691.1	14030.5	12184.5	10144.8	9241.8	9203.9	9591.0	9491.0
45°	18657.0	18654.8	17796.2	16566.2	16079.1	14101.8	11706.2	10460.6	10402.8	10556.3	10278.2
47.5°	19428.8	19442.1	19010.7	18145.4	18350.1	16695.3	13674.7	12226.6	12139.9	12077.6	11655.0
50°	18828.2	18855.0	18890.5	18721.5	20016.0	20180.6	16314.8	14715.6	14673.4	14395.4	13734.8
52.5°	16866.5	17002.2	17420.3	17956.3	20594.3	23525.9	20454.2	17807.3	17580.5	17284.6	16557.2
55°	13561.3	13710.3	14504.2	15805.6	19733.6	25723.5	26255.0	21793.2	21415.1	20532.0	19482.2
57.5°	8974.9	9206.1	10358.4	12013.2	17233.5	26077.1	32042.5	27324.8	26008.2	23590.3	22407.1
60°	4944.5	5167.0	6416.9	7916.1	12447.0	24328.9	35935.0	34527.0	32200.5	27009.0	25959.2
62.5°	3044.9	3165.1	4088.2	5482.7	7464.6	19202.0	36740.2	43577.5	40883.9	31410.8	30249.7
65°	2424.5	2475.6	2927.2	4481.9	5351.5	11421.5	34140.0	50477.1	49578.5	36740.2	34091.1
67°	2353.2	2373.2	2586.8	3848.0	5044.6	7001.9	28601.6	51600.3	52512.3	39965.3	34211.2
67.5°	2368.8	2391.0	2593.5	3672.2	5035.6	6434.8	26693.2	51157.7	52309.8	40221.1	33679.6
70°	2284.3	2353.2	2969.3	3670.0	4788.9	5347.0	15985.7	44324.9	45523.6	37371.8	28577.1
72.5°	809.6	814.1	1283.4	2969.3	5207.0	5404.9	8027.3	32494.0	33381.6	28588.2	20603.2
75°	480.4	409.2	427.1	845.2	4975.6	5249.3	4630.9	20763.3	21094.8	16381.6	10433.9
77.5°	331.4	289.1	298.1	373.6	1895.1	5175.8	3678.9	10827.6	10474.0	5745.2	2222.0
80°	189.0	166.8	178.0	327.0	689.5	4828.8	3469.8	4390.7	3743.4	974.3	613.9
82.5°	100.1	84.5	102.2	269.1	480.4	3009.4	3476.5	2122.0	1681.5	329.2	418.1
85°	35.6	29.0	48.9	184.6	320.2	923.0	3222.9	1783.8	1401.2	160.2	318.1
87.5°	6.7	6.7	20.0	75.6	129.0	282.4	1906.1	1058.7	709.5	95.6	218.0
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: P192788

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-7030-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8409.9	8409.9	8409.9	8409.9	8409.9	8409.9	8409.9	8409.9	8409.9	8409.9	8409.9
2.5°	8383.3	8287.6	8158.5	8000.6	7813.7	7649.2	7526.9	7400.0	7373.4	7328.9	7322.2
5°	8327.6	8163.0	7842.7	7475.7	7084.3	6730.6	6443.7	6187.9	6074.4	5976.6	5965.4
7.5°	8245.2	7998.5	7453.4	6861.8	6250.1	5694.0	5222.5	4889.0	4581.9	4435.2	4412.9
10°	8149.6	7795.9	7015.3	6194.6	5349.4	4564.2	3863.5	3276.3	2920.4	2709.1	2682.5
12.5°	8060.7	7598.0	6568.2	5502.9	4379.5	3329.6	2428.9	1868.4	1494.6	1343.5	1325.7
15°	8018.4	7438.0	6150.1	4795.5	3365.3	2119.7	1327.8	1027.6	905.3	869.7	867.4
17.5°	8013.9	7302.3	5740.8	4063.7	2357.7	1232.2	865.3	789.6	765.2	756.3	756.3
20°	8011.8	7173.2	5331.6	3305.2	1497.0	820.7	720.7	702.9	685.0	673.9	673.9
22.5°	8036.2	7057.5	4904.4	2531.2	943.1	665.1	633.9	616.1	593.9	578.3	576.2
25°	8060.7	6968.5	4468.4	1801.6	682.9	578.3	547.2	522.7	491.5	471.6	469.3
27.5°	8065.1	6857.3	4001.4	1205.5	571.7	504.9	464.9	427.1	391.4	371.5	369.2
30°	7998.5	6670.5	3483.1	814.1	504.9	438.1	384.8	344.7	311.4	295.9	295.9
32.5°	7867.2	6439.2	2913.7	613.9	449.3	375.9	318.1	280.2	258.0	251.3	249.1
35°	7749.3	6190.1	2328.8	520.5	402.6	318.1	260.2	235.8	222.5	220.1	218.0
37.5°	7680.4	5989.9	1779.4	471.6	358.2	266.9	220.1	202.4	195.7	191.3	193.5
40°	7733.7	5823.1	1314.5	431.5	313.6	222.5	186.9	178.0	171.3	169.1	169.1
42.5°	7967.3	5794.1	976.4	395.9	271.4	184.6	162.4	155.7	151.3	149.0	151.3
45°	8581.1	5972.1	758.5	362.5	229.1	155.7	137.8	135.7	133.4	133.4	133.4
47.5°	9504.3	6339.1	631.7	324.7	191.3	133.4	120.0	117.9	115.7	117.9	117.9
50°	11067.9	7010.8	565.0	287.0	157.9	113.4	102.2	102.2	102.2	102.2	104.6
52.5°	13445.6	8332.0	520.5	249.1	129.0	95.6	86.8	86.8	88.9	88.9	91.2
55°	16094.7	10084.7	480.4	211.3	109.0	80.1	71.1	73.4	75.6	77.9	77.9
57.5°	18968.4	12026.5	447.1	173.5	93.4	64.5	60.1	62.3	64.5	69.0	69.0
60°	22436.0	14128.5	398.1	135.7	77.9	51.2	46.8	51.2	57.8	62.3	64.5
62.5°	26243.8	16161.4	335.9	106.7	64.5	40.0	37.8	46.8	55.6	60.1	62.3
65°	28846.3	16799.7	258.0	86.8	48.9	29.0	31.1	42.3	53.4	60.1	60.1
67°	27792.0	15231.7	211.3	73.4	40.0	22.3	29.0	42.3	53.4	57.8	60.1
67.5°	27060.2	14617.8	202.4	71.1	37.8	22.3	29.0	42.3	53.4	60.1	60.1
70°	22017.8	10981.1	169.1	53.4	31.1	20.0	24.5	40.0	51.2	57.8	57.8
72.5°	15298.4	6770.6	151.3	37.8	26.7	17.8	22.3	37.8	48.9	55.6	57.8
75°	7273.3	2451.1	129.0	29.0	24.5	15.7	20.0	37.8	48.9	55.6	55.6
77.5°	1483.5	569.5	104.6	24.5	20.0	15.7	17.8	35.6	46.8	53.4	53.4
80°	487.1	220.1	77.9	22.3	20.0	15.7	17.8	33.4	46.8	51.2	53.4
82.5°	351.4	111.2	51.2	22.3	20.0	15.7	15.7	33.4	44.5	51.2	51.2
85°	269.1	77.9	33.4	22.3	20.0	15.7	15.7	31.1	42.3	48.9	48.9
87.5°	178.0	31.1	26.7	22.3	20.0	15.7	15.7	31.1	40.0	46.8	48.9
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)