

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: P192248

Luminaire Tested: **GLEON-AF-10-LED-E1-T3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47612 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

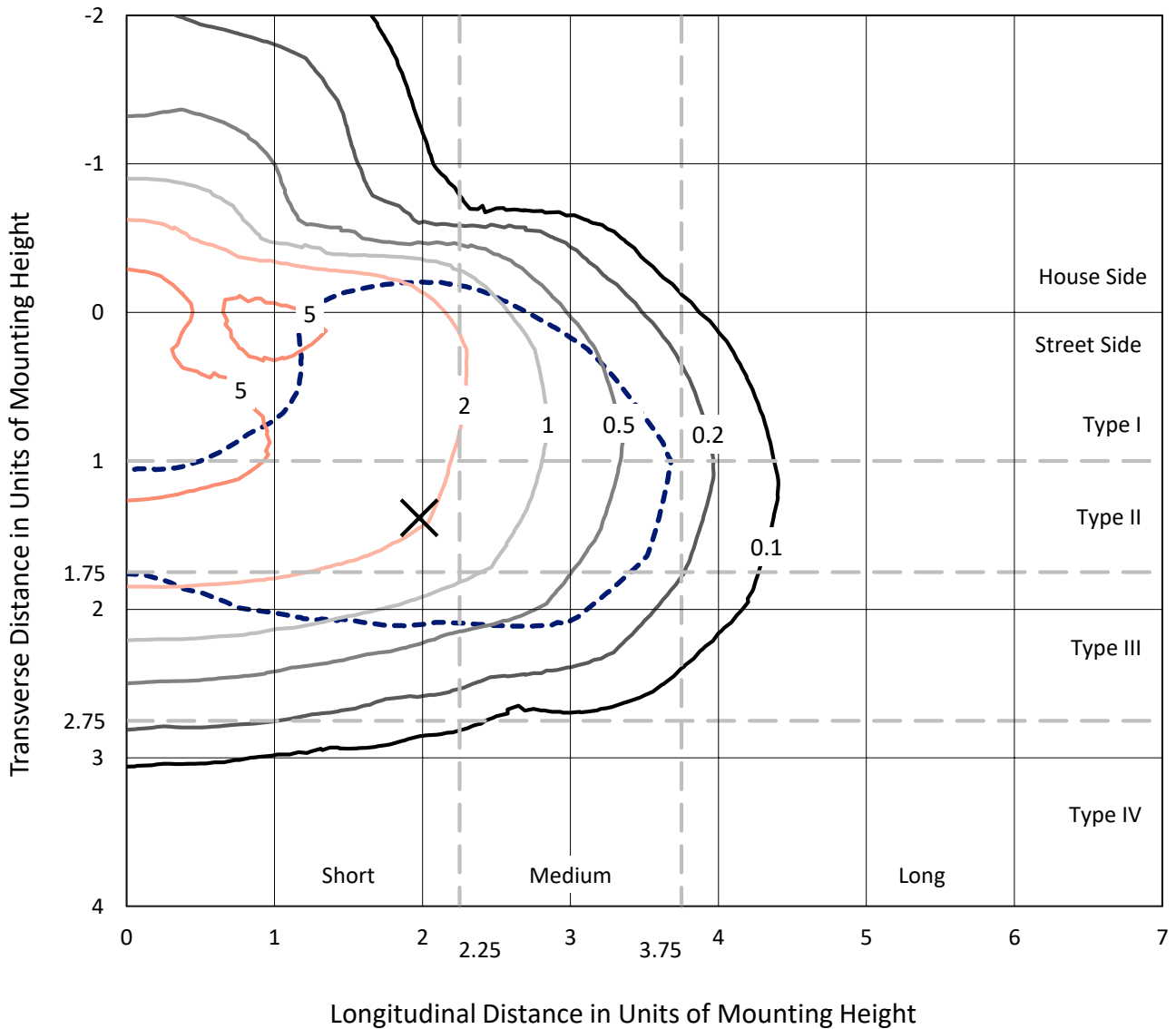
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P192248
 CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-7050-800

Iso-Footcandle Lines of Horizontal Illumination

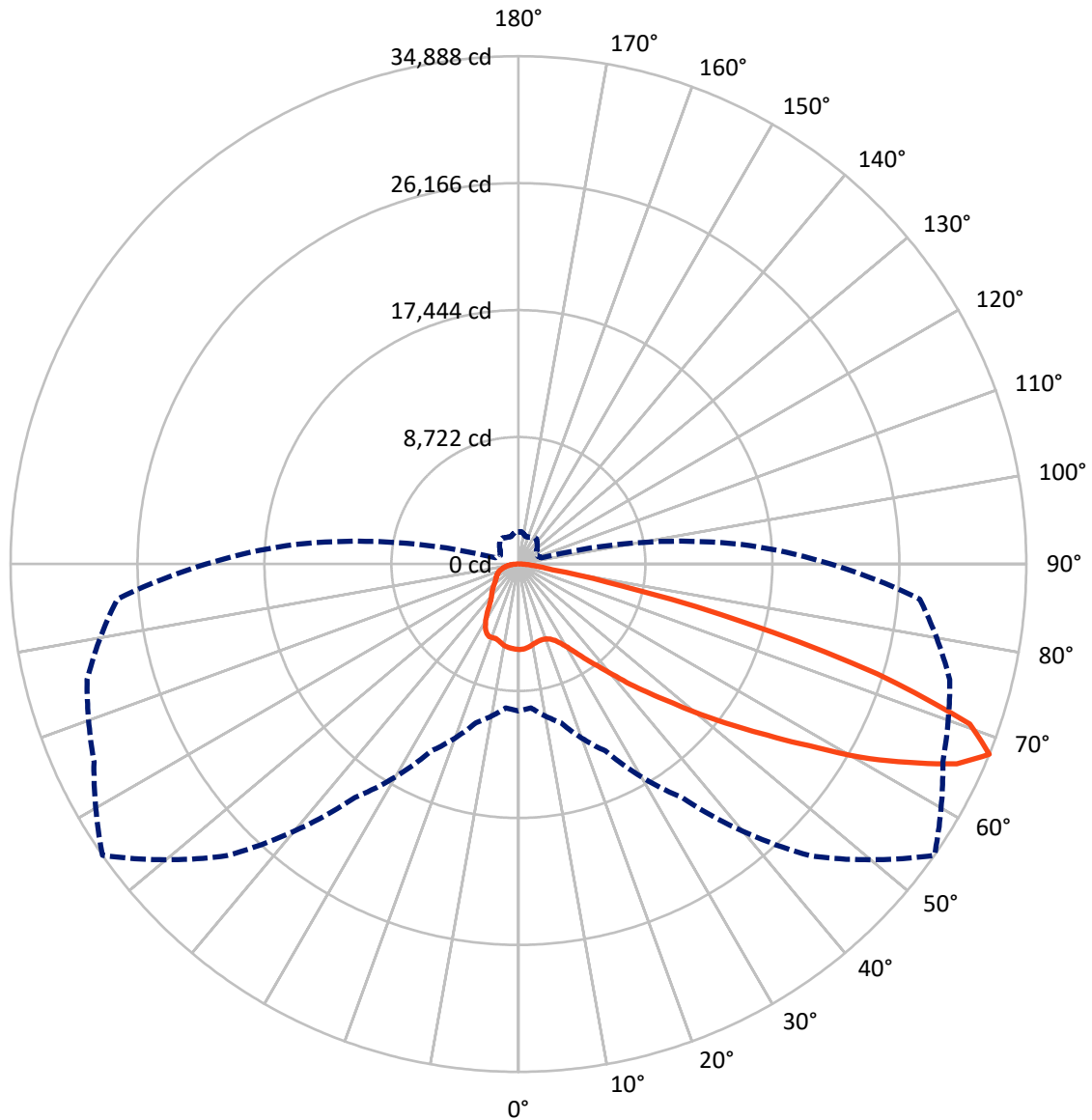
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P192248
CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-7050-800

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P192248

CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-7050-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10285.2	0.0	10285.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	37326.8	0.0	37326.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	47612.0	0.0	47612.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.0	1.2
10°-20°	1552.0	3.3
20°-30°	2599.8	5.5
30°-40°	4275.3	9.0
40°-50°	7196.6	15.1
50°-60°	11326.9	23.8
60°-70°	13517.4	28.4
70°-80°	5804.6	12.2
80°-90°	791.4	1.7
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°	47612.0	100.0
0°-180°	47612.0	100.0



REPORT NUMBER: P192248

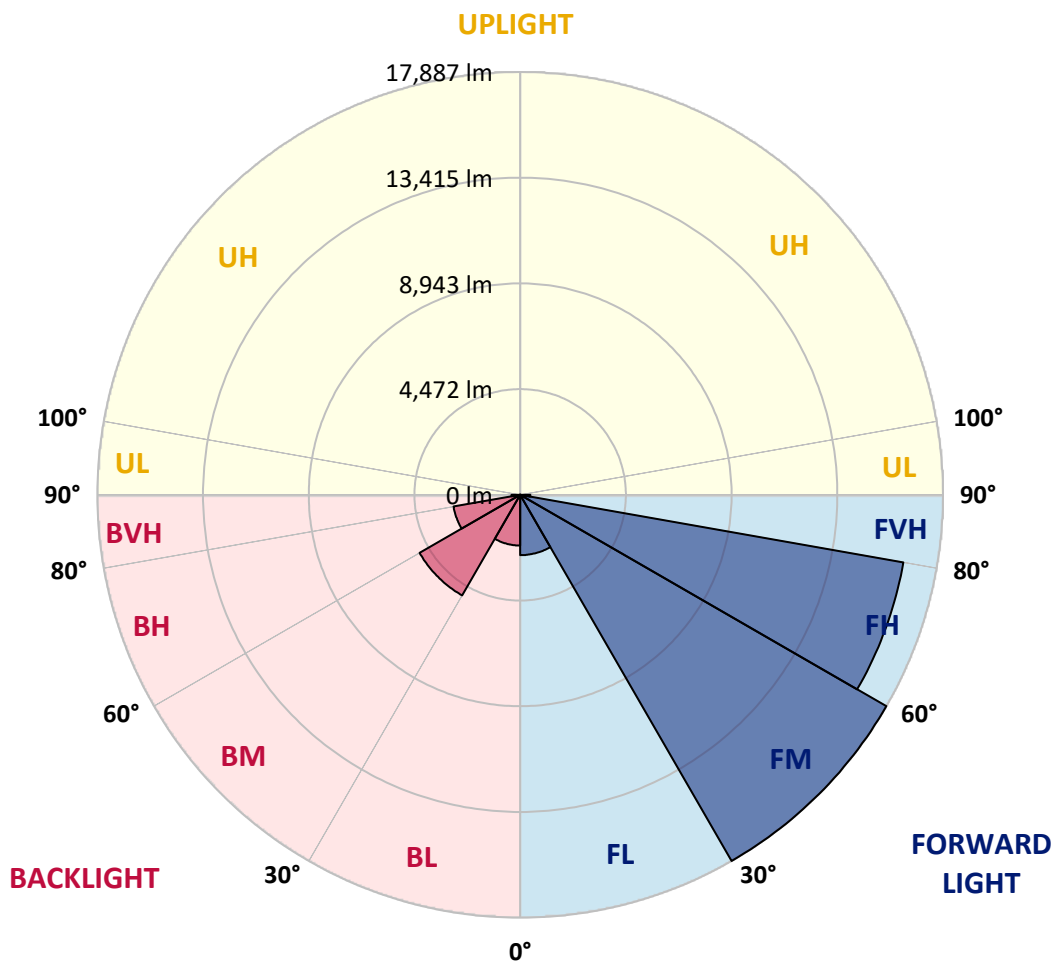
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2552.1	5.4			
FM	(30°-60°)	17886.6	37.6			
FH	(60°-80°)	16459.7	34.6			G5
FVH	(80°-90°)	428.4	0.9			G3/500
BL	(0°-30°)	2147.7	4.5	B3/2500		
BM	(30°-60°)	4912.1	10.3	B3/5000		
BH	(60°-80°)	2862.3	6.0	B4/5000		G4/5000
BVH	(80°-90°)	363.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





REPORT NUMBER: P192248

CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-7050-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5871.1	5871.1	5871.1	5871.1	5871.1	5871.1	5871.1	5871.1	5871.1	5871.1	5871.1
2.5°	5820.5	5822.8	5827.4	5845.8	5861.9	5857.3	5859.6	5850.4	5848.1	5834.3	5848.1
5°	5746.9	5753.8	5756.1	5786.0	5804.4	5809.0	5802.1	5790.6	5776.8	5763.0	5769.9
7.5°	5579.0	5597.4	5599.7	5641.1	5671.0	5710.1	5712.4	5714.7	5707.8	5698.6	5712.4
10°	5473.2	5477.8	5475.5	5505.4	5528.4	5572.1	5597.4	5641.1	5659.5	5664.1	5673.3
12.5°	5466.3	5461.7	5454.8	5454.8	5447.9	5466.3	5512.3	5574.4	5618.1	5631.9	5643.4
15°	5539.9	5537.6	5514.6	5480.1	5436.4	5422.6	5461.7	5530.7	5588.2	5618.1	5629.6
17.5°	5705.5	5691.7	5654.9	5576.7	5482.4	5445.6	5450.2	5507.7	5574.4	5613.5	5625.0
20°	6009.1	6009.1	5930.9	5783.7	5615.8	5528.4	5487.0	5521.5	5585.9	5638.8	5654.9
22.5°	6533.4	6538.0	6406.9	6165.4	5882.6	5696.3	5592.8	5585.9	5661.8	5721.6	5740.0
25°	7276.2	7257.8	7073.8	6728.9	6298.8	5990.7	5811.3	5769.9	5834.3	5901.0	5924.0
27.5°	8140.9	8074.2	7855.7	7439.5	6882.9	6432.2	6156.2	6089.5	6151.6	6227.5	6250.5
30°	8996.3	8927.4	8667.5	8212.2	7593.5	7023.2	6627.7	6519.6	6607.0	6715.1	6728.9
32.5°	9851.8	9851.8	9562.1	9030.8	8357.0	7729.2	7255.5	7126.7	7271.6	7402.7	7432.6
35°	10875.2	10879.8	10599.2	9959.9	9235.5	8570.9	8048.9	7954.6	8173.1	8265.0	8336.3
37.5°	12133.1	12158.4	11797.4	11024.7	10231.3	9532.2	8911.3	8782.5	9000.9	9251.6	9481.6
40°	13492.2	13524.4	13126.6	12174.5	11381.1	10649.8	9978.3	9746.0	10109.4	10587.7	10884.4
42.5°	14789.2	14954.8	14570.8	13591.1	12737.9	11981.3	11300.6	10962.6	11417.9	12140.0	12397.6
45°	16663.5	16783.1	16113.8	15226.2	14423.6	13577.3	12675.8	12319.4	12956.4	13867.1	13920.0
47.5°	17912.2	17822.5	17482.2	16930.2	16422.0	15630.9	14274.1	13883.2	14729.4	15801.1	15504.4
50°	18576.8	18604.4	18558.4	18590.6	18609.0	18112.3	16233.4	15697.6	16707.2	18001.9	17318.9
52.5°	19197.7	19013.7	19165.5	19919.8	20830.5	20646.5	18365.2	17806.4	18827.5	20444.1	19236.8
55°	19183.9	18903.4	19397.8	20729.3	22704.7	22916.3	20759.2	20115.3	21069.7	23063.5	21269.7
57.5°	18505.5	18519.3	19280.5	21023.7	24010.9	25050.4	23537.2	22571.3	23447.5	25717.3	23125.6
60°	17571.8	17698.3	18795.3	20975.4	25057.3	26800.5	26945.3	25218.3	25777.1	28129.7	24661.8
62.5°	16065.6	16198.9	17712.1	20474.0	24898.6	28486.1	30026.9	28221.7	28212.5	29592.3	25112.5
65°	13690.0	13650.9	15240.0	18599.8	23567.1	29732.5	33087.8	30818.0	30047.6	29615.3	24206.4
67.5°	10095.6	9920.8	11284.5	14166.0	19588.7	28336.6	34888.4	32170.2	30673.1	27667.4	21437.6
70°	5238.7	5063.9	6167.7	8271.9	12882.8	22116.0	32894.6	31471.1	29291.0	23192.3	16794.6
72.5°	2239.9	2210.0	2658.4	3628.9	6232.1	12756.3	25793.2	27239.7	25133.2	17279.8	11546.7
75°	1506.3	1497.1	1665.0	1977.7	2803.3	5176.6	16141.4	19335.7	18388.2	10714.2	6494.3
77.5°	1182.0	1170.5	1269.4	1421.2	1816.7	2042.1	7163.5	10380.7	9608.1	4663.7	2842.4
80°	924.5	915.3	977.4	1060.2	1306.2	1287.8	2357.2	4130.2	3196.6	1786.9	1382.1
82.5°	729.0	729.0	779.6	781.9	926.8	878.5	1230.3	1819.0	1596.0	1041.8	846.3
85°	666.9	666.9	719.8	584.1	604.8	554.2	763.5	1078.5	1011.9	427.7	367.9
87.5°	335.8	326.6	604.8	517.4	328.9	294.4	372.5	522.0	561.1	236.9	184.0
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: P192248

CATALOG NUMBER: GLEON-AF-10-LED-E1-T3-7050-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5871.1	5871.1	5871.1	5871.1	5871.1	5871.1	5871.1	5871.1	5871.1	5871.1
2.5°	5843.5	5841.2	5845.8	5848.1	5866.5	5891.8	5903.3	5919.4	5928.6	5924.0
5°	5774.5	5779.1	5797.5	5811.3	5843.5	5884.9	5907.9	5926.3	5942.4	5935.5
7.5°	5717.0	5728.5	5756.1	5767.6	5786.0	5797.5	5795.2	5802.1	5815.9	5799.8
10°	5684.8	5698.6	5719.3	5703.2	5659.5	5597.4	5539.9	5510.0	5519.2	5507.7
12.5°	5652.6	5671.0	5654.9	5579.0	5457.1	5376.6	5333.0	5337.6	5358.3	5362.9
15°	5634.2	5641.1	5572.1	5429.5	5305.4	5293.9	5316.9	5312.3	5314.6	5314.6
17.5°	5634.2	5615.8	5487.0	5344.5	5291.6	5270.9	5199.6	5109.9	5070.8	5057.0
20°	5664.1	5615.8	5459.4	5365.2	5250.2	5073.1	4884.5	4718.9	4645.4	4624.7
22.5°	5753.8	5671.0	5537.6	5374.3	5047.8	4751.1	4452.2	4254.4	4121.0	4098.0
25°	5935.5	5843.5	5691.7	5252.5	4725.8	4302.7	3962.3	3741.6	3608.2	3589.8
27.5°	6252.8	6193.0	5774.5	4983.4	4298.1	3845.1	3530.0	3359.8	3260.9	3254.0
30°	6731.2	6701.3	5733.1	4585.6	3771.5	3401.2	3249.4	3150.6	3077.0	3074.7
32.5°	7494.7	7253.2	5597.4	4100.3	3290.8	3086.2	3024.1	2964.3	2906.8	2906.8
35°	8476.6	7699.3	5339.9	3580.6	2998.8	2911.4	2833.2	2738.9	2663.0	2658.4
37.5°	9631.1	7975.3	4877.6	3162.1	2860.8	2794.1	2679.1	2538.8	2405.5	2382.5
40°	10797.0	8058.1	4226.8	2904.5	2773.4	2676.8	2536.5	2371.0	2242.2	2235.3
42.5°	11866.3	7899.4	3536.9	2727.4	2686.0	2557.2	2410.1	2262.9	2161.7	2159.4
45°	12763.2	7487.8	2957.4	2559.5	2594.0	2449.2	2318.1	2198.5	2120.3	2104.2
47.5°	13607.2	6905.9	2550.3	2382.5	2502.1	2389.4	2279.0	2166.3	2090.4	2078.9
50°	14586.9	6278.1	2265.2	2210.0	2421.6	2368.7	2311.2	2193.9	2067.4	2053.6
52.5°	15773.5	5735.4	2042.1	2058.2	2359.5	2396.3	2394.0	2272.1	2051.3	2032.9
55°	17098.1	5132.9	1874.2	1934.0	2334.2	2446.9	2414.7	2345.7	2065.1	2037.5
57.5°	18402.0	4429.2	1757.0	1839.7	2297.4	2442.3	2315.8	2216.9	2097.3	2058.2
60°	19379.4	3484.0	1667.3	1757.0	2216.9	2366.4	2207.7	2076.6	2090.4	2060.5
62.5°	19443.8	2692.9	1559.2	1685.7	2095.0	2290.5	2136.4	2014.5	2120.3	2092.7
65°	18300.8	2035.2	1455.7	1600.6	1963.9	2242.2	2067.4	1980.0	2182.4	2152.5
67.5°	15407.8	1637.4	1368.3	1513.2	1832.8	2141.0	2005.3	1947.8	2237.6	2184.7
70°	11123.5	1395.9	1283.2	1407.4	1715.6	2026.0	1950.1	1890.3	2088.1	2005.3
72.5°	6848.4	1209.6	1186.6	1267.1	1625.9	1906.4	1867.3	1782.3	1881.1	1814.4
75°	3419.6	1048.7	1078.5	1129.1	1499.4	1770.8	1729.4	1644.3	1658.1	1644.3
77.5°	1637.4	896.9	952.1	991.2	1336.1	1616.7	1573.0	1485.6	1469.5	1471.8
80°	1037.2	749.7	802.6	830.2	1193.5	1437.3	1393.6	1306.2	1490.2	1382.1
82.5°	648.5	609.4	623.2	673.8	1039.5	1251.0	1193.5	1115.3	1343.0	1062.5
85°	358.7	425.4	443.8	487.5	800.3	1046.4	988.9	890.0	798.0	784.2
87.5°	213.9	253.0	259.9	292.1	538.1	756.6	669.2	634.7	526.6	524.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)