

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: P192896

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-SL3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30400.3 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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



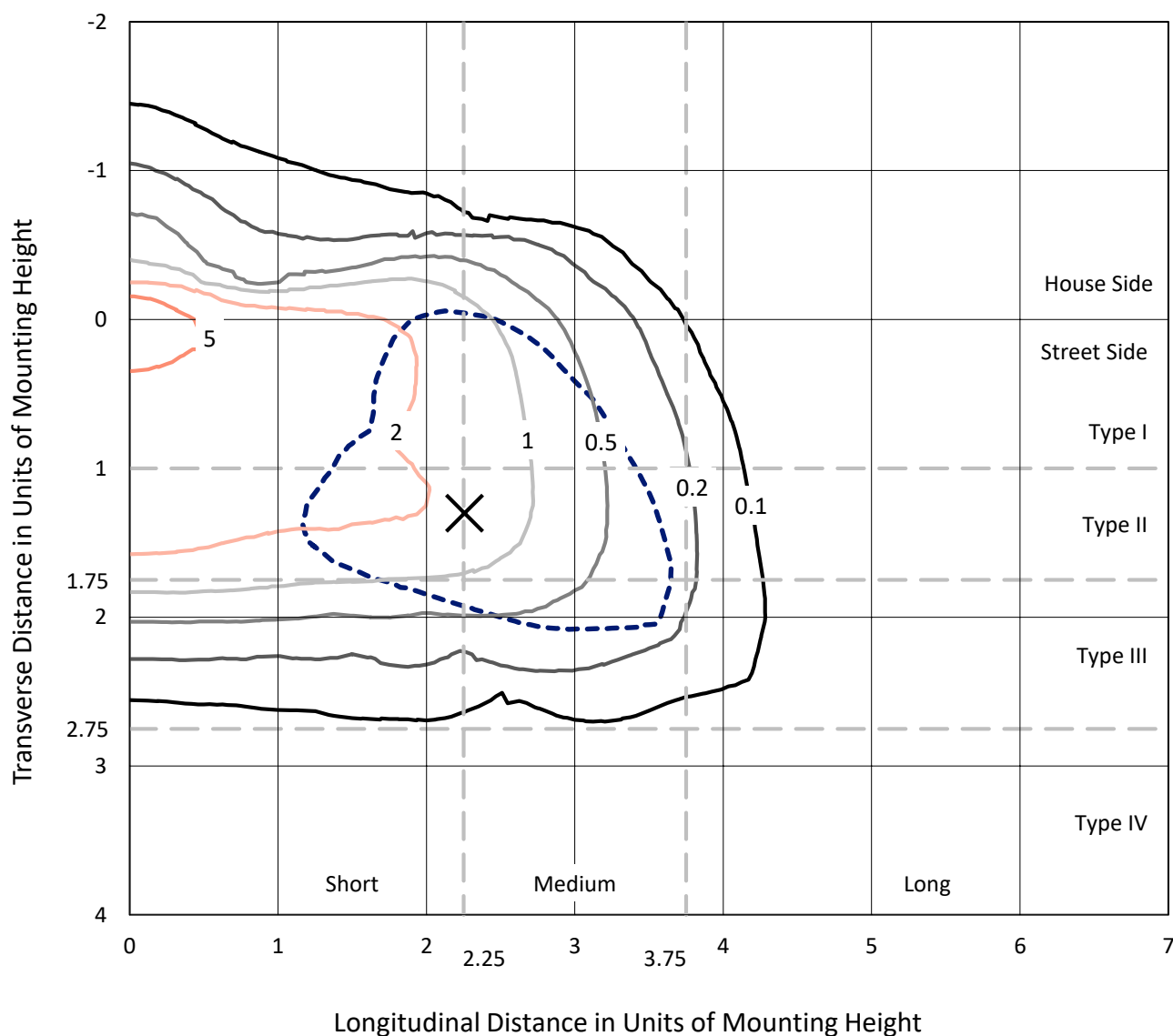
REPORT NUMBER: P192896

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

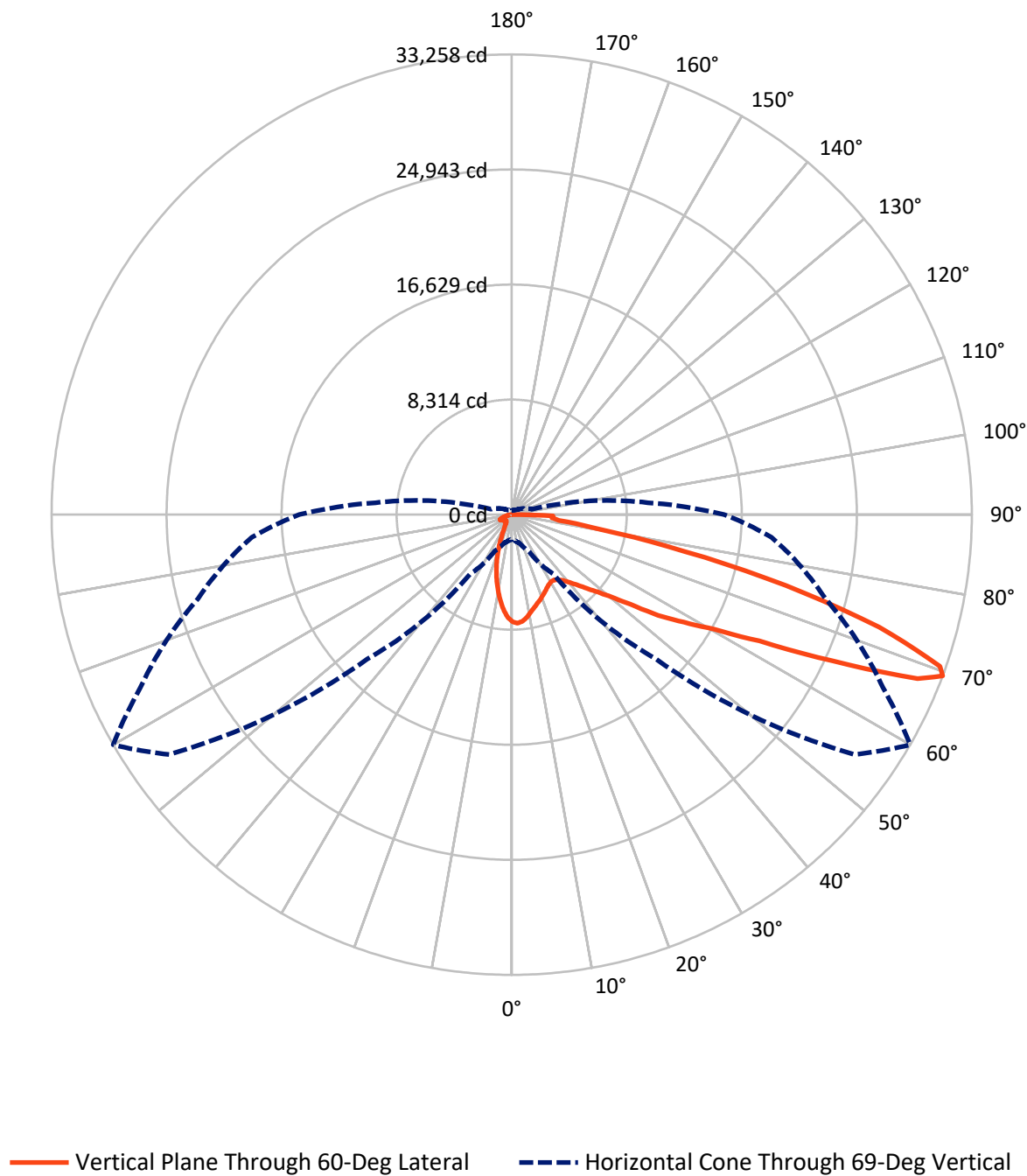


Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
Type III - Medium - Non-Cutoff

REPORT NUMBER: P192896

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7030-600

Luminous Intensity Polar Plot



REPORT NUMBER: P192896

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4325.0	0.0	4325.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	26075.3	0.0	26075.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	30400.3	0.0	30400.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.0	2.2
10°-20°	1395.5	4.6
20°-30°	1778.1	5.8
30°-40°	2444.5	8.0
40°-50°	3966.4	13.0
50°-60°	6361.1	20.9
60°-70°	8466.1	27.8
70°-80°	4571.0	15.0
80°-90°	762.7	2.5
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°	30400.3	100.0
0°-180°	30400.3	100.0

Coefficient of Utilization



REPORT NUMBER: P192896

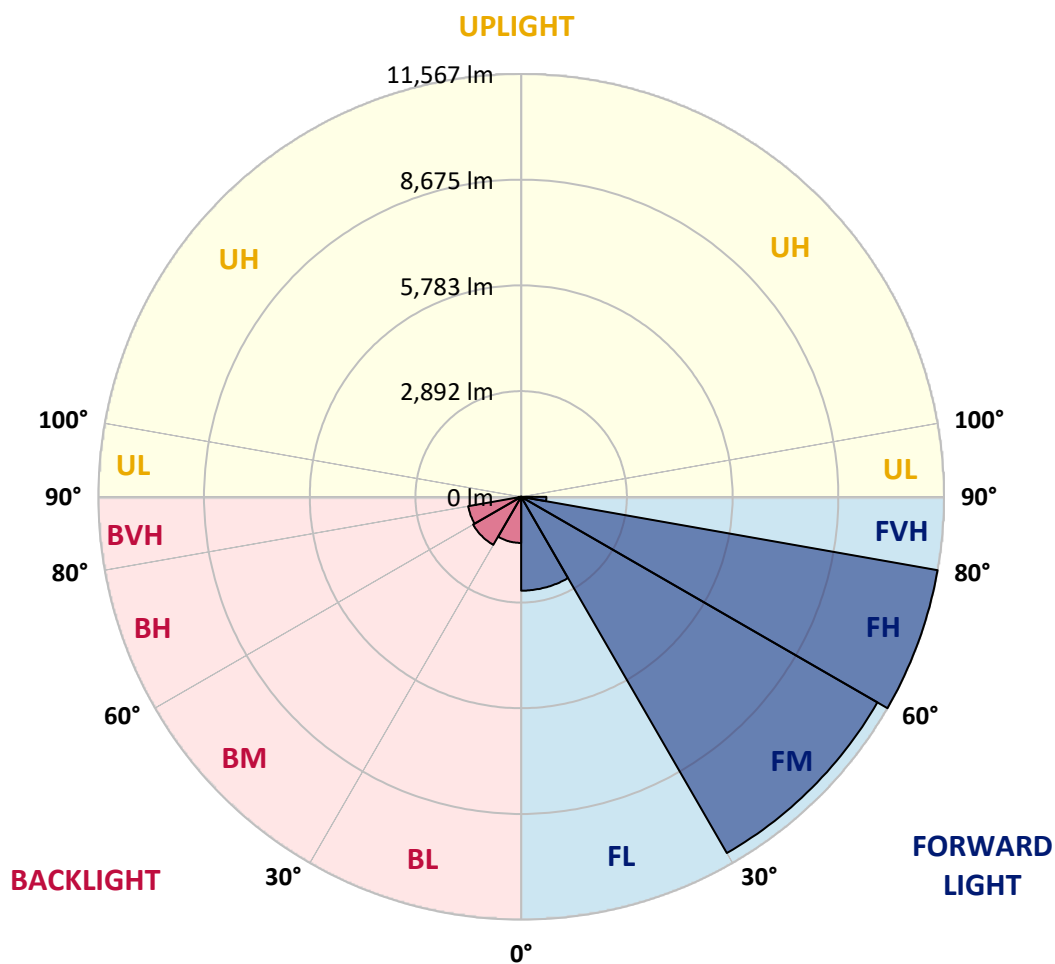
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2566.9	8.4			
FM	(30°-60°)	11252.4	37.0			
FH	(60°-80°)	11566.7	38.0			G4/12000
FVH	(80°-90°)	689.3	2.3			G4/750
BL	(0°-30°)	1261.7	4.2	B3/2500		
BM	(30°-60°)	1519.5	5.0	B2/2500		
BH	(60°-80°)	1470.4	4.8	B3/2500		G3/2500
BVH	(80°-90°)	73.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



REPORT NUMBER: P192896

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	7746.5	7746.5	7746.5	7746.5	7746.5	7746.5	7746.5	7746.5	7746.5	7746.5	7746.5
2.5°	7905.0	7922.7	7915.3	7910.9	7924.1	7903.6	7860.9	7847.8	7827.3	7778.7	7696.6
5°	7608.4	7661.3	7658.3	7698.0	7764.1	7781.7	7762.7	7765.6	7727.4	7667.2	7530.5
7.5°	7096.0	7117.9	7129.7	7216.3	7336.8	7433.7	7516.0	7542.3	7524.6	7473.4	7297.1
10°	6567.2	6584.8	6612.8	6714.1	6866.8	7000.5	7156.2	7245.6	7283.9	7275.0	7078.3
12.5°	6113.5	6131.1	6167.8	6282.3	6464.5	6628.9	6855.0	6966.7	7057.7	7112.0	6900.6
15°	5706.7	5744.9	5780.2	5912.2	6116.5	6332.2	6587.8	6728.7	6869.7	6991.6	6743.5
17.5°	5389.4	5427.7	5448.2	5568.6	5786.0	6050.3	6349.9	6515.7	6692.0	6891.7	6587.8
20°	5205.8	5223.5	5214.7	5282.2	5477.6	5758.1	6113.5	6305.8	6518.7	6797.8	6432.1
22.5°	5154.6	5156.0	5123.7	5116.3	5242.6	5479.1	5860.8	6094.4	6355.7	6736.2	6298.5
25°	5279.3	5274.9	5186.9	5114.9	5128.1	5266.1	5617.1	5888.7	6219.1	6722.9	6195.6
27.5°	5556.9	5570.1	5439.4	5304.3	5170.7	5166.3	5432.1	5718.4	6107.6	6783.2	6151.7
30°	5946.0	5968.1	5828.6	5656.8	5405.6	5198.5	5360.2	5617.1	6038.5	6907.9	6144.3
32.5°	6371.9	6395.4	6289.7	6109.0	5780.2	5398.3	5410.1	5625.9	6035.6	7082.7	6194.2
35°	6825.7	6852.0	6797.8	6645.0	6279.4	5766.9	5600.9	5768.4	6131.1	7350.0	6327.9
37.5°	7332.3	7373.5	7388.1	7242.8	6852.0	6253.0	5913.7	6038.5	6347.0	7721.5	6573.1
40°	8062.2	8119.5	8115.0	7906.5	7508.6	6909.4	6396.9	6429.2	6683.3	8217.8	6965.2
42.5°	9460.2	9472.0	9106.3	8652.6	8231.0	7599.6	6966.7	6940.2	7147.3	8846.4	7542.3
45°	11238.6	11190.2	10376.6	9499.9	8985.9	8392.6	7708.2	7579.1	7736.2	9612.9	8264.8
47.5°	12714.5	12602.8	11574.9	10364.9	9784.7	9254.6	8579.1	8353.0	8439.6	10482.4	9198.9
50°	13227.0	13143.3	12291.5	11084.5	10541.0	10306.1	9651.1	9331.0	9354.4	11519.1	10292.9
52.5°	13116.8	13105.1	12536.7	11558.7	11248.9	11410.4	11169.6	10736.4	10507.3	12670.4	11473.6
55°	12856.9	12881.8	12676.3	12111.0	12058.1	12476.6	13153.5	12833.4	12121.2	13832.0	12694.0
57.5°	11953.7	12018.4	12470.8	12805.5	13360.7	13983.2	14751.3	14660.3	13858.5	15087.6	14144.8
60°	9630.5	9780.4	10993.3	12670.4	14701.4	16648.6	16992.3	16780.8	15650.1	16645.7	16061.2
62.5°	6747.9	6903.5	8345.7	10969.8	14481.1	19659.1	20998.4	20086.4	18223.0	18940.9	18541.6
65°	3612.5	3687.5	4788.9	7611.3	12225.4	20280.2	26853.4	25465.6	22296.5	21770.9	20663.5
67.5°	1992.8	2033.9	2455.4	3843.0	7830.2	17858.8	30583.5	31631.9	27387.9	23654.9	20277.3
69°	1801.9	1840.0	2116.2	2910.5	5239.6	14766.0	30219.3	33257.7	29620.0	23468.5	18850.0
70°	1762.3	1797.5	2045.7	2683.0	4241.1	12171.2	28998.9	32842.0	30151.7	22800.3	17604.6
72.5°	1586.0	1624.1	1865.0	2409.8	3624.3	6067.9	22970.6	27768.4	27374.7	19769.3	13353.2
75°	1478.9	1514.0	1922.3	2359.9	3470.1	3840.1	15143.5	20465.4	20123.2	13829.1	7200.1
77.5°	632.9	630.0	891.4	1997.2	3521.5	3718.3	8137.1	12785.0	11664.5	5910.8	2067.7
80°	423.0	415.6	423.0	587.4	3229.2	3738.9	4263.1	6489.5	4901.9	1506.6	1019.2
82.5°	364.2	358.4	371.6	358.4	1135.2	4267.5	3624.3	3451.1	2330.5	856.1	505.3
85°	245.3	235.0	320.1	321.7	536.0	3791.8	4082.5	2915.0	1885.6	508.0	249.6
87.5°	117.5	114.5	186.5	227.6	314.2	1540.4	4580.3	2986.9	1901.7	259.9	119.0
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: P192896

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7746.5	7746.5	7746.5	7746.5	7746.5	7746.5	7746.5	7746.5	7746.5	7746.5	7746.5
2.5°	7671.5	7611.3	7552.6	7482.1	7408.7	7326.5	7285.3	7244.2	7233.9	7222.1	7181.1
5°	7460.1	7374.9	7228.0	7066.6	6896.2	6730.3	6603.9	6524.6	6464.5	6433.6	6379.2
7.5°	7187.0	7062.1	6805.1	6526.2	6239.8	5978.3	5752.2	5609.8	5474.7	5411.5	5339.5
10°	6927.0	6740.5	6341.1	5929.9	5518.6	5123.7	4752.1	4489.3	4255.7	4125.1	4032.5
12.5°	6703.8	6448.3	5894.6	5338.1	4774.2	4211.7	3655.2	3217.5	2851.8	2659.5	2561.1
15°	6486.5	6178.1	5470.3	4763.9	4039.9	3274.8	2543.4	2047.1	1744.7	1624.1	1583.0
17.5°	6289.7	5894.6	5044.4	4185.2	3282.1	2356.9	1709.4	1436.2	1320.2	1280.5	1267.3
20°	6076.8	5608.3	4602.3	3580.2	2492.1	1647.6	1334.9	1214.4	1167.4	1155.8	1149.9
22.5°	5871.1	5326.3	4179.3	2932.6	1790.1	1271.8	1146.9	1097.0	1089.7	1099.9	1099.9
25°	5696.4	5073.8	3722.7	2255.6	1314.3	1070.5	1026.5	1014.8	1042.7	1080.8	1088.2
27.5°	5565.6	4866.7	3236.6	1665.3	1047.0	931.0	929.6	948.7	1017.6	1091.1	1105.8
30°	5476.1	4669.8	2716.7	1201.3	878.2	819.5	842.9	884.0	985.4	1089.7	1117.5
32.5°	5430.6	4524.5	2175.0	929.6	751.9	719.6	759.3	809.2	909.0	1006.0	1042.7
35°	5465.8	4417.4	1663.8	775.4	663.8	638.8	679.9	728.4	787.1	828.3	856.1
37.5°	5598.0	4374.7	1255.6	694.6	603.5	580.0	612.4	640.3	663.8	675.6	688.8
40°	5882.9	4420.3	1006.0	653.5	569.8	540.4	553.6	563.9	578.6	590.3	596.2
42.5°	6302.9	4556.8	901.7	637.3	552.2	509.5	506.6	511.0	530.1	552.2	556.5
45°	6890.3	4797.7	894.3	647.6	543.3	484.6	471.4	477.3	506.6	540.4	546.3
47.5°	7640.7	5164.8	953.1	678.5	550.6	471.4	449.4	456.7	493.5	538.9	546.3
50°	8549.7	5677.3	1051.5	724.0	583.0	474.3	442.1	446.5	484.6	534.5	541.9
52.5°	9623.2	6404.2	1158.7	768.0	616.8	493.5	447.9	437.6	472.9	516.9	525.7
55°	10817.1	7336.8	1268.8	807.7	634.4	516.9	459.7	425.9	450.8	487.6	495.0
57.5°	12282.7	8640.8	1459.7	845.8	646.2	533.0	471.4	414.1	423.0	449.4	455.3
60°	14266.7	10485.3	1796.0	909.0	672.6	538.9	470.0	403.8	395.1	409.7	412.7
62.5°	16644.2	12488.4	2076.5	988.4	716.6	543.3	461.1	396.5	371.6	371.6	374.4
65°	18055.5	13024.4	1920.8	1054.4	753.4	538.9	450.8	389.2	353.9	337.7	339.2
67.5°	16858.6	11454.5	1646.2	1067.6	751.9	518.4	434.7	376.0	336.3	311.3	309.9
69°	15359.2	9883.1	1522.8	1032.4	716.6	492.0	414.1	361.2	323.1	296.6	295.2
70°	14150.7	8924.2	1442.1	994.1	678.5	472.9	397.9	348.0	312.8	287.8	284.8
72.5°	10288.5	5847.7	1232.1	854.6	559.5	396.5	343.6	305.5	279.0	264.3	261.3
75°	5141.3	2788.8	1000.0	693.1	428.9	317.2	282.0	255.5	242.3	239.4	237.8
77.5°	1688.8	1277.6	715.2	516.9	318.7	248.1	227.6	208.5	205.6	214.3	211.4
80°	928.1	743.1	453.8	342.2	217.3	182.1	179.1	169.0	173.2	187.9	185.0
82.5°	472.9	386.2	280.5	205.6	146.9	130.7	142.5	136.6	142.5	155.7	154.2
85°	233.5	211.4	177.6	124.8	96.9	83.7	101.3	105.8	108.7	119.0	119.0
87.5°	135.2	124.8	94.0	58.8	48.5	44.0	58.8	57.3	67.5	73.4	72.0
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)