

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: P455709

Luminaire Tested: **GALN-SA6D-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA 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: 36131 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368
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: 24 FT

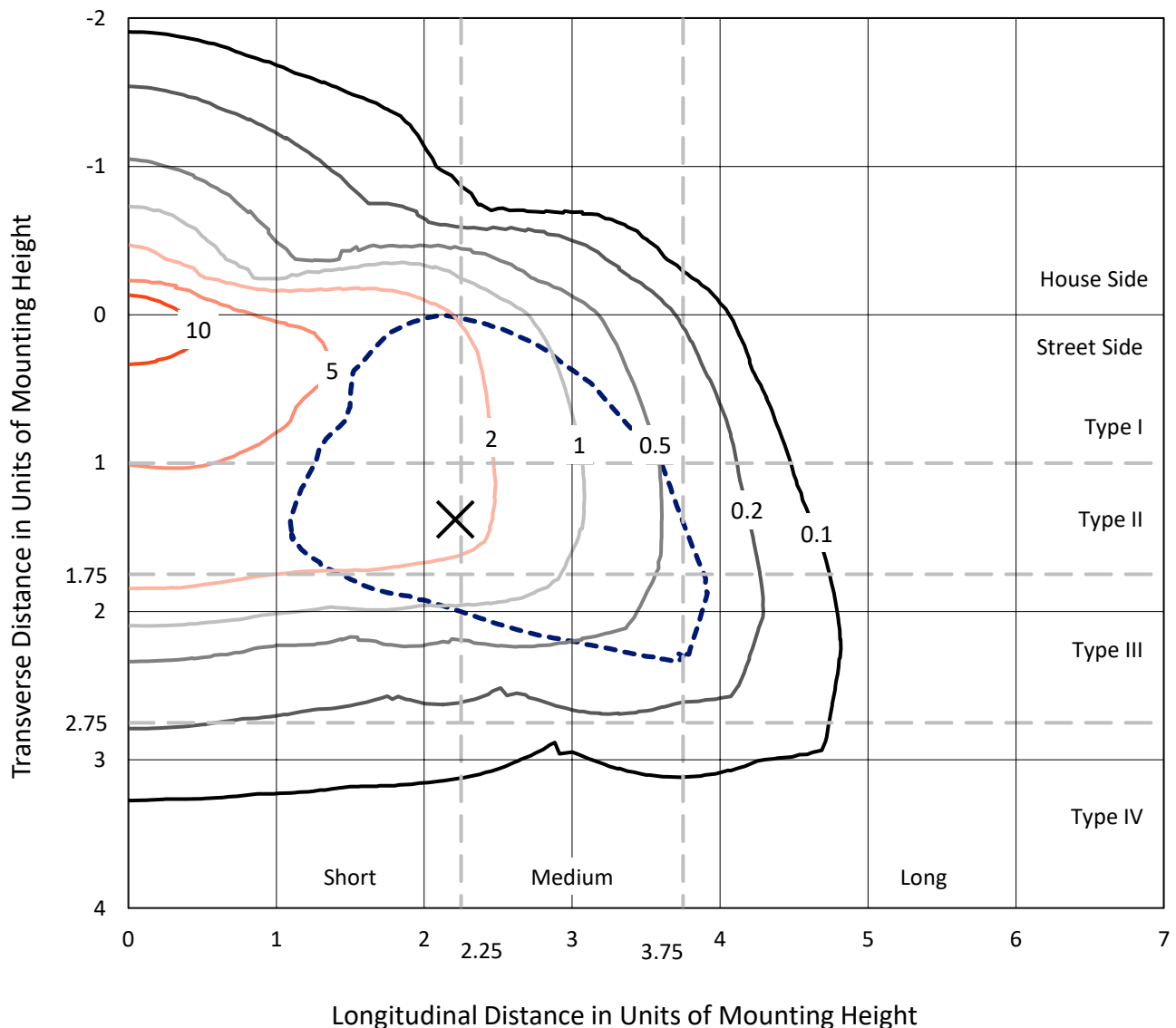


REPORT NUMBER: P455709

CATALOG NUMBER: GALN-SA6D-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

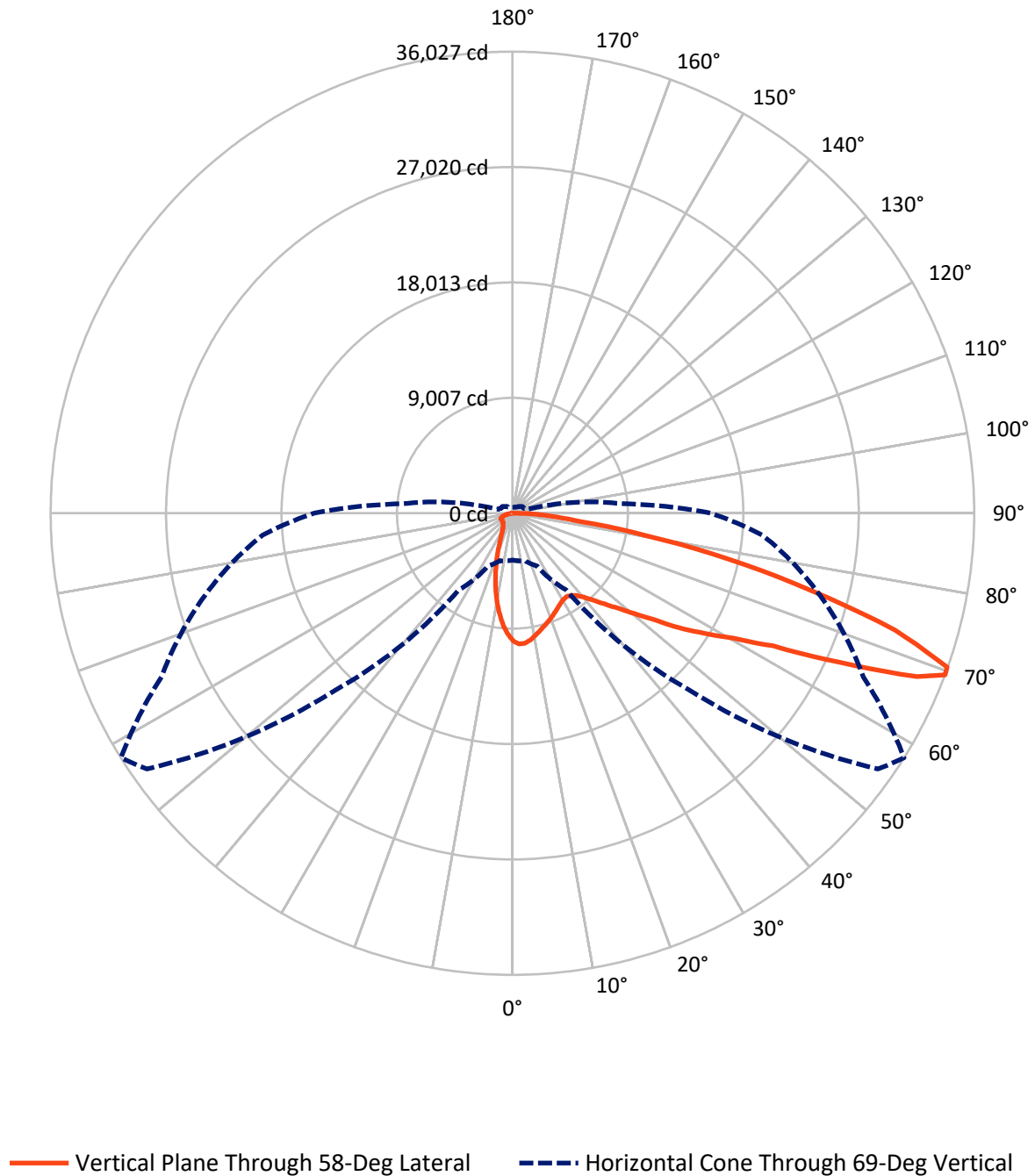


Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type III - Short - N/A

REPORT NUMBER: P455709

CATALOG NUMBER: GALN-SA6D-830-U-SL3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5295.0	0.0	5295.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	30836.0	0.0	30836.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	36131.0	0.0	36131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	847.9	2.3
10°-20°	1861.9	5.2
20°-30°	2405.6	6.7
30°-40°	3124.4	8.6
40°-50°	4542.4	12.6
50°-60°	7248.2	20.1
60°-70°	9682.7	26.8
70°-80°	5581.7	15.4
80°-90°	836.0	2.3
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°	36131.0	100.0
0°-180°	36131.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455709

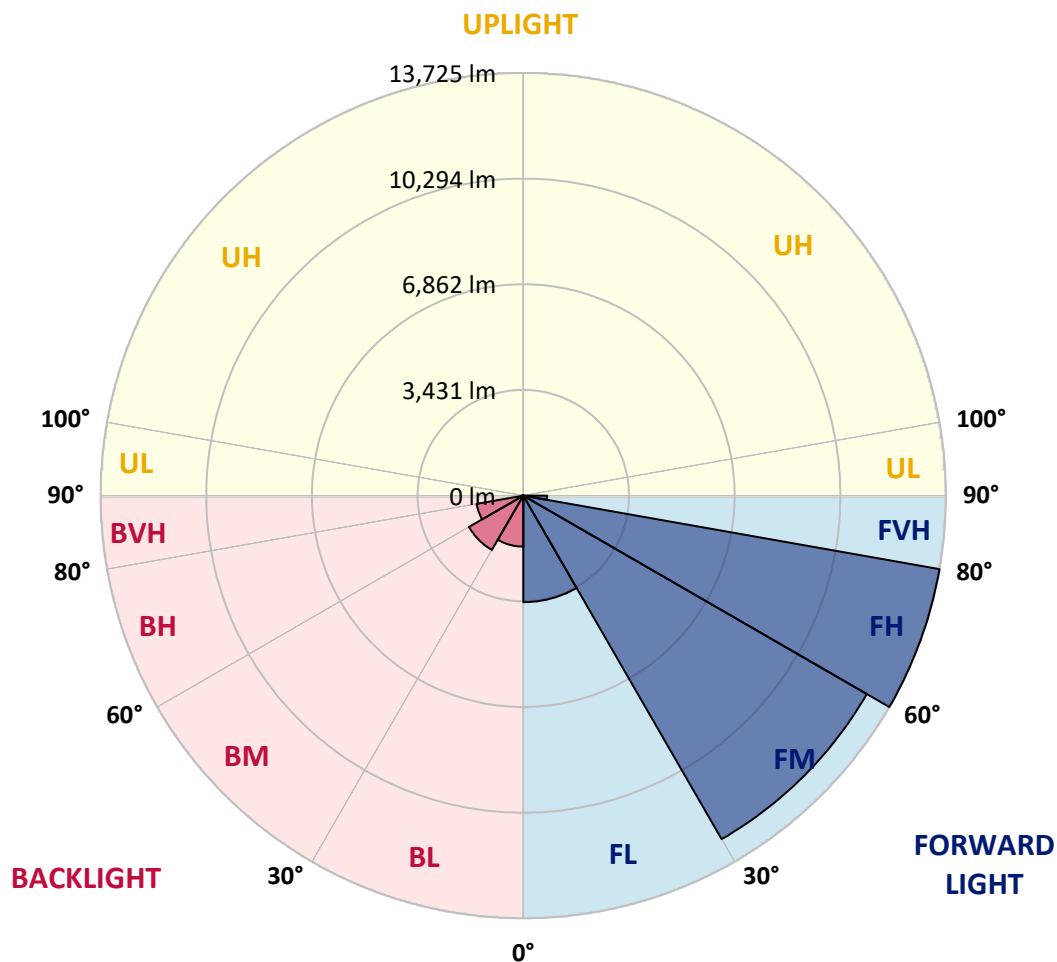
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3460.4	9.6			
FM	(30°-60°)	12878.8	35.6			
FH	(60°-80°)	13724.8	38.0			G5
FVH	(80°-90°)	772.0	2.1			G5
BL	(0°-30°)	1655.0	4.6	B3/2500		
BM	(30°-60°)	2036.3	5.6	B2/2500		
BH	(60°-80°)	1539.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	64.0	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-G5

Type III Short



REPORT NUMBER: P455709

CATALOG NUMBER: GALN-SA6D-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9984.5	9984.5	9984.5	9984.5	9984.5	9984.5	9984.5	9984.5	9984.5	9984.5	9984.5
2.5°	10355.3	10383.5	10375.4	10365.3	10349.2	10304.9	10232.3	10220.3	10173.9	10075.2	9952.3
5°	10196.1	10220.3	10222.3	10236.4	10256.5	10248.5	10196.1	10190.0	10121.5	9988.5	9783.0
7.5°	9650.0	9682.2	9752.8	9831.4	9901.9	9968.4	9984.5	9994.6	9952.3	9799.1	9525.1
10°	9035.4	9067.7	9099.9	9216.8	9390.1	9555.3	9692.3	9710.4	9720.5	9579.5	9245.0
12.5°	8354.3	8420.8	8489.3	8662.6	8894.4	9154.3	9396.1	9434.4	9502.9	9396.1	9003.2
15°	7776.0	7844.5	7943.3	8098.4	8378.5	8753.3	9093.8	9156.3	9291.3	9236.9	8777.5
17.5°	7375.0	7399.2	7467.7	7645.0	7947.3	8342.2	8797.6	8922.6	9138.2	9124.1	8584.0
20°	7058.7	7088.9	7131.2	7240.0	7554.4	7971.5	8521.6	8682.8	8975.0	9023.3	8392.6
22.5°	6925.7	6947.8	6941.8	7000.2	7213.8	7632.9	8241.5	8432.9	8829.9	8954.8	8215.3
25°	6933.7	6953.9	6923.7	6909.6	7036.5	7334.7	7949.3	8193.1	8713.0	8908.5	8054.1
27.5°	7068.7	7082.8	7026.4	6970.0	6980.1	7149.3	7707.5	7977.5	8614.3	8928.6	7919.1
30°	7250.1	7276.3	7240.0	7171.5	7096.9	7105.0	7552.3	7818.3	8567.9	8999.1	7854.6
32.5°	7483.8	7508.0	7491.9	7437.5	7340.8	7234.0	7514.1	7759.9	8572.0	9142.2	7840.5
35°	7729.7	7778.0	7804.2	7800.2	7721.6	7536.2	7665.2	7868.7	8668.7	9382.0	7923.1
37.5°	8007.7	8048.0	8160.9	8233.4	8160.9	7945.3	8005.7	8146.8	8882.3	9728.6	8104.5
40°	8277.8	8338.2	8503.4	8729.1	8700.9	8511.5	8525.6	8618.3	9259.1	10244.4	8459.1
42.5°	8559.9	8632.4	8920.6	9255.1	9321.5	9174.4	9212.7	9295.4	9795.1	10959.8	9067.7
45°	8922.6	9009.2	9363.9	9781.0	10042.9	9952.3	10061.1	10101.4	10512.4	11890.7	9869.6
47.5°	9390.1	9490.8	9928.1	10448.0	10818.7	10901.3	11090.7	11066.6	11401.1	12992.9	10909.4
50°	10177.9	10234.4	10647.4	11177.4	11687.2	12060.0	12265.5	12303.8	12503.3	14064.9	12072.1
52.5°	11114.9	11165.3	11463.5	11927.0	12565.8	13355.6	13863.4	13738.5	13786.9	15370.7	13432.2
55°	12168.8	12253.4	12442.8	12751.1	13579.3	14742.0	15761.6	15791.8	15255.8	16620.0	14735.9
57.5°	12984.9	13127.9	13452.4	13891.6	14941.5	16283.5	17653.7	17673.9	16988.8	17954.0	16174.7
60°	12573.8	12743.1	13484.6	14554.6	16728.8	18973.6	19914.6	19799.7	18675.3	19473.3	17929.8
62.5°	10800.6	10830.8	11908.9	13581.3	17278.9	22572.4	23279.7	22794.1	20926.1	21399.7	19713.1
65°	6990.2	7187.6	8042.0	10385.5	15471.4	24569.3	29175.7	28053.3	24081.7	23586.0	21206.2
67.5°	4412.9	4362.5	4717.2	5930.2	10641.4	22810.2	34207.2	34029.9	28208.5	24966.3	20849.6
69°	3659.3	3715.7	3836.6	4545.9	7322.6	19475.3	34801.7	36026.8	30209.4	24857.5	19553.9
70°	3318.8	3345.0	3471.9	4030.1	5650.2	16311.7	33826.4	35972.4	30995.3	24402.1	18614.9
72.5°	2633.6	2631.6	2849.3	3353.0	4223.5	9311.5	27775.2	31231.0	30116.7	22282.2	15380.8
75°	2000.9	2033.2	2273.0	2837.2	3891.0	5088.0	19382.6	24051.4	24053.5	17599.3	9597.6
77.5°	1442.8	1462.9	1743.0	2381.8	3665.3	4124.8	12910.3	17250.7	16217.0	8064.2	3016.5
80°	945.1	957.1	1170.7	1886.1	3304.7	3891.0	7655.1	10558.8	7649.1	2140.0	997.4
82.5°	517.9	578.3	715.3	1221.1	2651.8	3594.8	4652.7	5343.9	2869.4	953.1	519.9
85°	259.9	276.1	403.0	713.3	1732.9	2974.2	3240.2	3064.9	1481.0	473.5	270.0
87.5°	76.6	96.7	167.2	276.1	703.2	1549.6	1803.5	1618.1	570.3	171.3	56.4
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°	9984.5	9984.5	9984.5	9984.5	9984.5	9984.5	9984.5	9984.5	9984.5	9984.5	9984.5
2.5°	9901.9	9865.6	9704.4	9559.3	9426.3	9285.3	9166.4	9061.6	9071.7	9073.7	8966.9
5°	9676.2	9593.6	9287.3	9001.2	8759.4	8453.1	8191.1	8021.9	7937.2	7824.4	7864.7
7.5°	9369.9	9210.7	8785.5	8310.0	7864.7	7467.7	7036.5	6740.3	6550.9	6367.5	6391.7
10°	9053.5	8797.6	8179.0	7550.3	6974.0	6339.3	5789.2	5317.7	4967.1	4836.1	4749.4
12.5°	8729.1	8392.6	7606.8	6770.5	5974.6	5214.9	4435.1	3929.3	3542.4	3336.9	3363.1
15°	8432.9	8023.9	7010.3	5990.7	4957.0	4052.2	3274.4	2792.8	2522.8	2466.4	2498.6
17.5°	8158.9	7622.9	6452.1	5233.0	4026.0	3038.7	2460.4	2188.3	2079.5	2049.3	2047.3
20°	7876.8	7282.3	5825.5	4423.0	3137.4	2355.6	2019.1	1892.1	1872.0	1884.1	1886.1
22.5°	7590.6	6861.2	5180.7	3619.0	2498.6	1926.4	1765.2	1730.9	1747.0	1775.2	1779.3
25°	7326.7	6490.4	4560.0	2913.7	1994.9	1692.6	1614.0	1614.0	1650.3	1692.6	1694.6
27.5°	7109.0	6131.7	3941.4	2313.3	1670.5	1523.4	1497.2	1511.3	1561.7	1593.9	1595.9
30°	6929.7	5797.3	3357.0	1853.8	1469.0	1388.4	1382.3	1406.5	1442.8	1473.0	1475.0
32.5°	6794.7	5503.1	2811.0	1557.6	1329.9	1285.6	1283.6	1301.7	1321.9	1329.9	1338.0
35°	6742.3	5259.2	2311.2	1370.2	1237.2	1209.0	1209.0	1207.0	1215.1	1219.1	1223.1
37.5°	6784.6	5071.8	1924.4	1249.3	1168.7	1148.6	1136.5	1124.4	1120.4	1120.4	1122.4
40°	6964.0	4973.1	1636.2	1170.7	1120.4	1090.1	1068.0	1053.9	1039.8	1043.8	1047.8
42.5°	7344.8	4991.2	1440.7	1118.3	1078.0	1035.7	1003.5	987.4	977.3	989.4	987.4
45°	7951.3	5172.6	1315.8	1082.1	1035.7	981.3	951.1	935.0	935.0	953.1	959.2
47.5°	8799.7	5519.2	1249.3	1053.9	1003.5	939.0	908.8	896.7	900.7	930.9	933.0
50°	9835.4	6121.7	1237.2	1039.8	987.4	908.8	874.5	862.4	872.5	904.8	908.8
52.5°	10977.9	6897.5	1295.7	1041.8	973.3	890.6	846.3	828.2	838.3	864.4	872.5
55°	12332.0	7868.7	1446.8	1049.8	953.1	880.6	826.2	785.9	798.0	816.1	818.1
57.5°	13714.3	9093.8	1712.8	1051.8	937.0	862.4	791.9	739.5	739.5	751.6	757.7
60°	15402.9	10427.8	2063.4	1053.9	939.0	836.2	745.6	687.1	679.1	685.1	687.1
62.5°	17079.4	11544.1	2121.8	1047.8	959.2	810.0	695.2	634.7	620.6	618.6	614.6
65°	17818.9	11336.6	1739.0	1019.6	981.3	793.9	654.9	584.4	560.2	552.1	552.1
67.5°	16614.0	9589.5	1307.8	981.3	967.2	777.8	616.6	542.0	513.8	497.7	497.7
69°	15481.5	8529.6	1174.8	955.1	930.9	751.6	592.4	519.9	485.6	467.5	461.4
70°	14607.0	7800.2	1118.3	933.0	896.7	721.4	574.3	503.8	465.5	445.3	441.3
72.5°	11657.0	6119.7	979.3	848.3	763.7	606.5	509.8	453.4	417.1	394.9	388.9
75°	6718.1	3316.7	812.1	737.5	614.6	471.5	431.2	394.9	366.7	346.6	340.5
77.5°	2067.4	1281.6	588.4	582.3	451.4	364.7	344.6	330.5	310.3	288.1	284.1
80°	870.5	652.9	399.0	392.9	300.2	253.9	247.8	245.8	237.8	219.6	213.6
82.5°	477.6	368.8	278.1	241.8	181.4	147.1	153.1	155.2	149.1	131.0	118.9
85°	233.7	201.5	135.0	108.8	82.6	52.4	50.4	60.5	56.4	40.3	44.3
87.5°	46.3	56.4	36.3	16.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0
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)