

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: P457101

Luminaire Tested: **GALN-SA8B-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457101
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-SA8B-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA 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: 36190 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 325
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

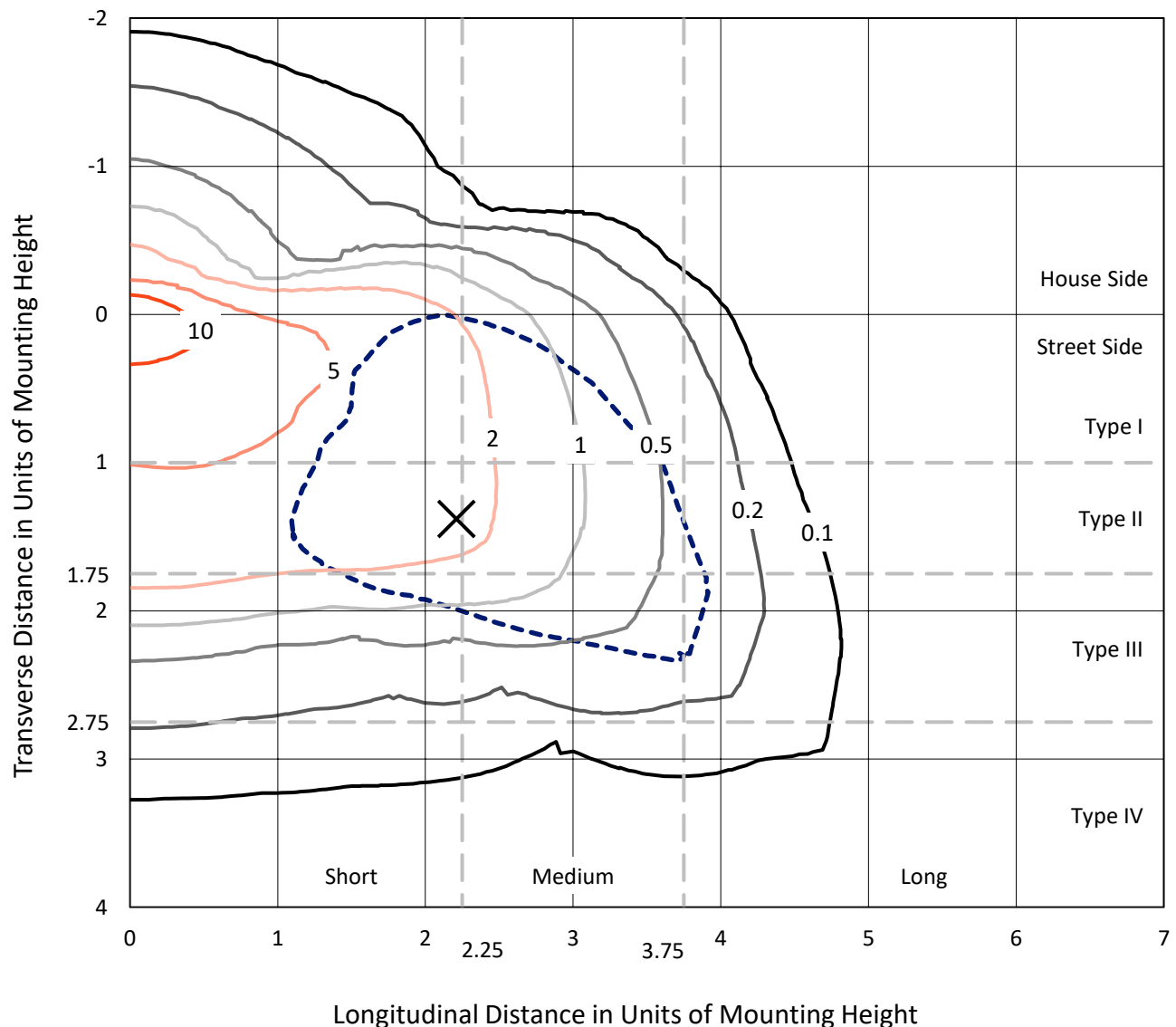


REPORT NUMBER: P457101

CATALOG NUMBER: GALN-SA8B-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

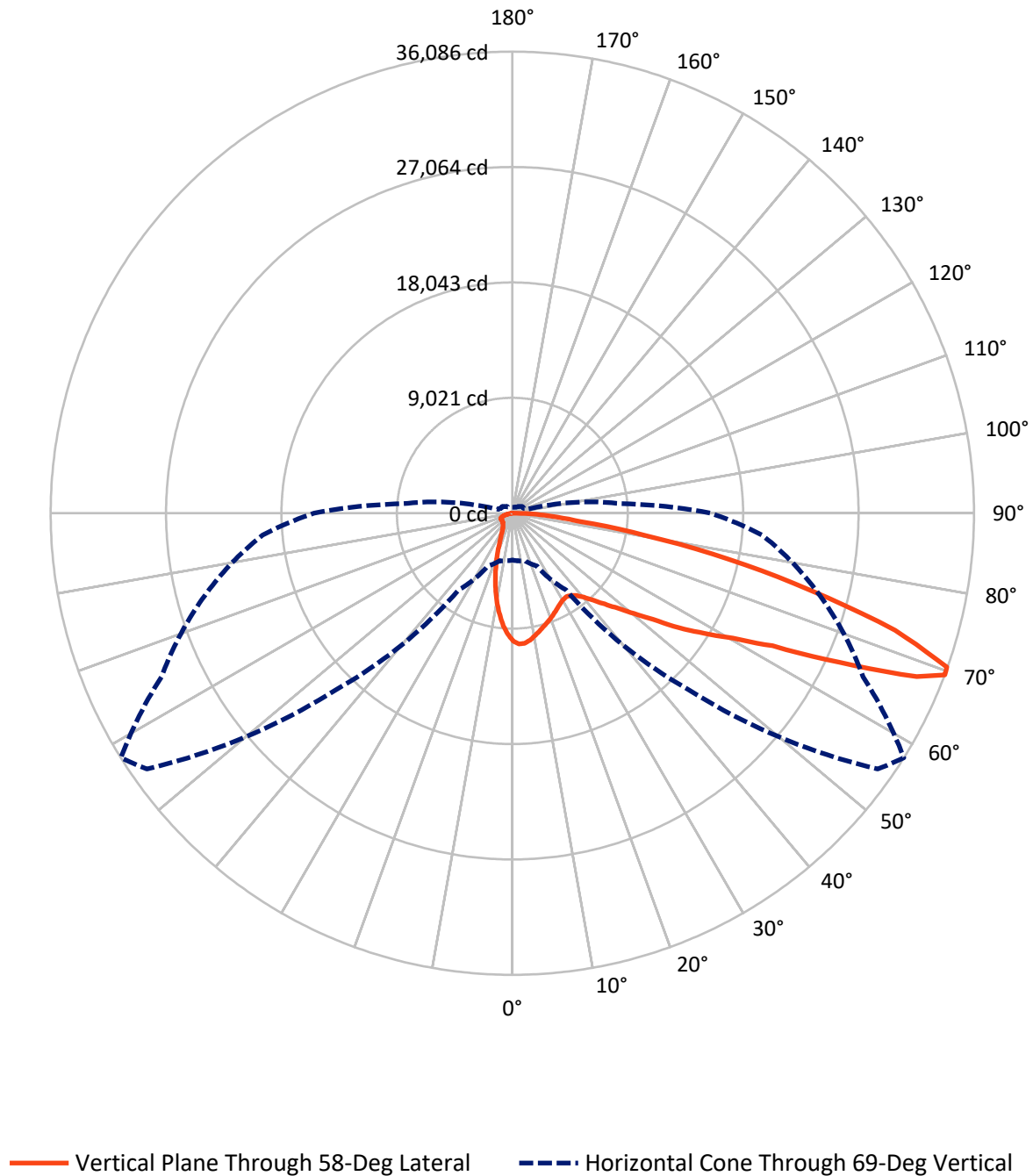


Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type III - Short - N/A

REPORT NUMBER: P457101

CATALOG NUMBER: GALN-SA8B-830-U-SL3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5303.6	0.0	5303.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	30886.4	0.0	30886.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	36190.0	0.0	36190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	849.3	2.3
10°-20°	1864.9	5.2
20°-30°	2409.5	6.7
30°-40°	3129.5	8.6
40°-50°	4549.9	12.6
50°-60°	7260.1	20.1
60°-70°	9698.6	26.8
70°-80°	5590.8	15.4
80°-90°	837.4	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°	36190.0	100.0
0°-180°	36190.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457101

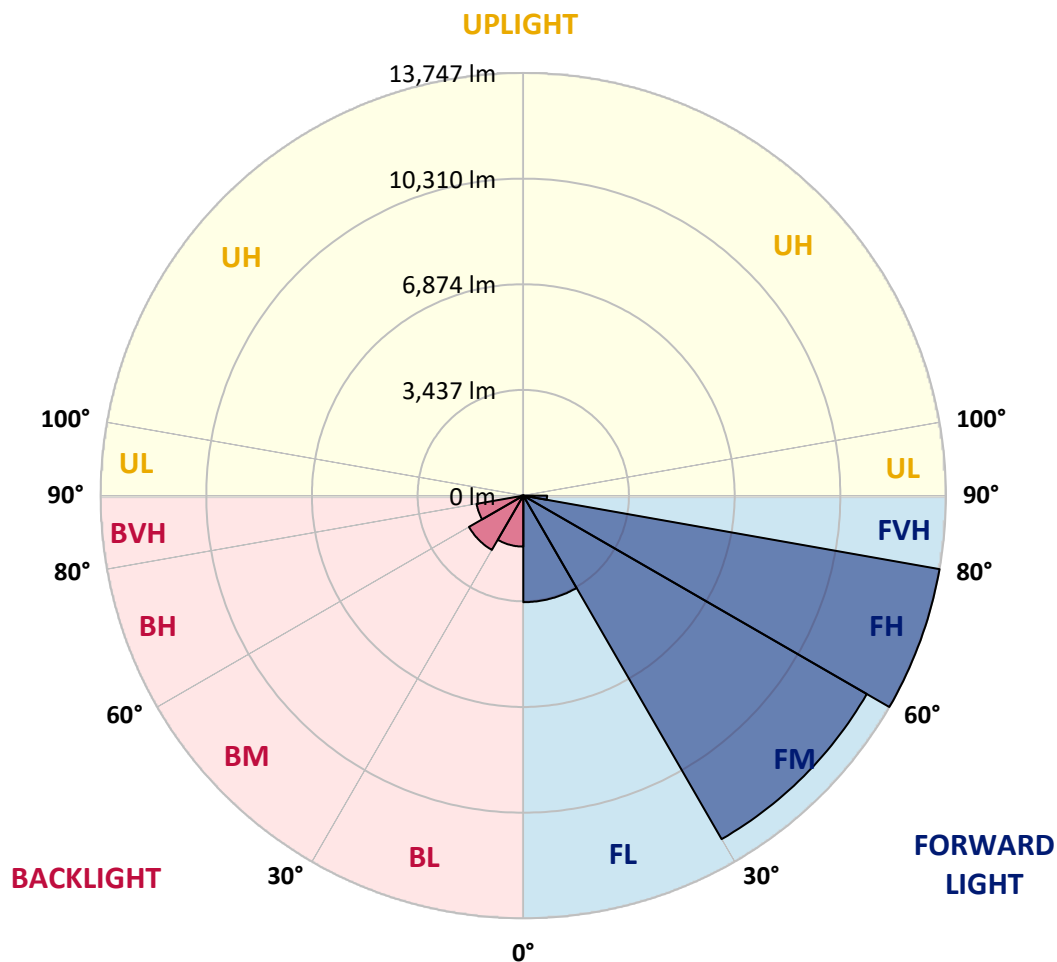
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3466.1	9.6			
FM	(30°-60°)	12899.9	35.6			
FH	(60°-80°)	13747.2	38.0			G5
FVH	(80°-90°)	773.2	2.1			G5
BL	(0°-30°)	1657.7	4.6	B3/2500		
BM	(30°-60°)	2039.6	5.6	B2/2500		
BH	(60°-80°)	1542.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	64.2	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: P457101

CATALOG NUMBER: GALN-SA8B-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10000.8	10000.8	10000.8	10000.8	10000.8	10000.8	10000.8	10000.8	10000.8	10000.8	10000.8
2.5°	10372.2	10400.4	10392.4	10382.3	10366.1	10321.7	10249.1	10236.9	10190.5	10091.6	9968.5
5°	10212.7	10236.9	10239.0	10253.1	10273.3	10265.2	10212.7	10206.7	10138.0	10004.8	9799.0
7.5°	9665.8	9698.0	9768.7	9847.4	9918.0	9984.7	10000.8	10010.9	9968.5	9815.1	9540.6
10°	9050.2	9082.5	9114.8	9231.8	9405.4	9570.9	9708.1	9726.3	9736.4	9595.1	9260.1
12.5°	8368.0	8434.6	8503.2	8676.8	8908.9	9169.2	9411.4	9449.8	9518.4	9411.4	9017.9
15°	7788.7	7857.3	7956.2	8111.6	8392.2	8767.6	9108.7	9171.3	9306.5	9252.0	8791.8
17.5°	7387.1	7411.3	7479.9	7657.5	7960.3	8355.9	8812.0	8937.1	9153.1	9139.0	8598.1
20°	7070.2	7100.5	7142.8	7251.8	7566.7	7984.5	8535.5	8697.0	8989.6	9038.1	8406.3
22.5°	6937.0	6959.2	6953.1	7011.7	7225.6	7645.4	8254.9	8446.7	8844.3	8969.4	8228.7
25°	6945.1	6965.2	6935.0	6920.8	7048.0	7346.7	7962.3	8206.5	8727.2	8923.0	8067.2
27.5°	7080.3	7094.4	7037.9	6981.4	6991.5	7161.0	7720.1	7990.5	8628.3	8943.2	7932.0
30°	7261.9	7288.2	7251.8	7183.2	7108.5	7116.6	7564.7	7831.1	8581.9	9013.8	7867.4
32.5°	7496.1	7520.3	7504.1	7449.6	7352.8	7245.8	7526.3	7772.6	8586.0	9157.1	7853.3
35°	7742.3	7790.7	7817.0	7812.9	7734.2	7548.5	7677.7	7881.6	8682.8	9397.3	7936.1
37.5°	8020.8	8061.2	8174.2	8246.9	8174.2	7958.3	8018.8	8160.1	8896.8	9744.5	8117.7
40°	8291.3	8351.8	8517.3	8743.4	8715.1	8525.4	8539.5	8632.4	9274.2	10261.2	8472.9
42.5°	8573.8	8646.5	8935.1	9270.2	9336.8	9189.4	9227.8	9310.5	9811.1	10977.7	9082.5
45°	8937.1	9023.9	9379.2	9796.9	10059.3	9968.5	10077.5	10117.9	10529.6	11910.1	9885.8
47.5°	9405.4	9506.3	9944.3	10465.0	10836.4	10919.1	11108.9	11084.6	11419.7	13014.2	10927.2
50°	10194.6	10251.1	10664.8	11195.6	11706.3	12079.7	12285.5	12323.9	12523.7	14087.9	12091.8
52.5°	11133.1	11183.5	11482.2	11946.5	12586.3	13377.5	13886.1	13760.9	13809.4	15395.8	13454.2
55°	12188.7	12273.4	12463.2	12772.0	13601.5	14766.1	15787.3	15817.6	15280.7	16647.1	14760.0
57.5°	13006.1	13149.4	13474.3	13914.3	14965.9	16310.1	17682.5	17702.7	17016.5	17983.3	16201.1
60°	12594.3	12763.9	13506.6	14578.4	16756.1	19004.5	19947.1	19832.1	18705.8	19505.1	17959.1
62.5°	10818.2	10848.5	11928.3	13603.5	17307.1	22609.3	23317.7	22831.3	20960.3	21434.6	19745.3
65°	7001.6	7199.4	8055.1	10402.4	15496.7	24609.4	29223.3	28099.1	24121.0	23624.5	21240.8
67.5°	4420.1	4369.7	4724.9	5939.9	10658.8	22847.4	34263.1	34085.5	28254.5	25007.0	20883.6
69°	3665.3	3721.8	3842.9	4553.3	7334.6	19507.1	34858.5	36085.6	30258.7	24898.0	19585.8
70°	3324.2	3350.4	3477.6	4036.6	5659.4	16338.3	33881.6	36031.1	31045.9	24441.9	18645.3
72.5°	2637.9	2635.9	2853.9	3358.5	4230.4	9326.7	27820.6	31282.0	30165.9	22318.6	15405.9
75°	2004.2	2036.5	2276.7	2841.8	3897.4	5096.3	19414.3	24090.7	24092.7	17628.0	9613.3
77.5°	1445.1	1465.3	1745.9	2385.7	3671.3	4131.5	12931.4	17278.9	16243.5	8077.3	3021.4
80°	946.6	958.7	1172.6	1889.2	3310.1	3897.4	7667.6	10576.0	7661.6	2143.5	999.1
82.5°	518.7	579.3	716.5	1223.1	2656.1	3600.7	4660.3	5352.6	2874.1	954.7	520.7
85°	260.4	276.5	403.7	714.5	1735.8	2979.0	3245.5	3069.9	1483.5	474.3	270.5
87.5°	76.7	96.9	167.5	276.5	704.4	1552.1	1806.4	1620.7	571.2	171.6	56.5
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: P457101

CATALOG NUMBER: GALN-SA8B-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10000.8	10000.8	10000.8	10000.8	10000.8	10000.8	10000.8	10000.8	10000.8	10000.8	10000.8
2.5°	9918.0	9881.7	9720.3	9574.9	9441.7	9300.4	9181.4	9076.4	9086.5	9088.5	8981.5
5°	9692.0	9609.2	9302.5	9015.9	8773.7	8466.9	8204.5	8034.9	7950.2	7837.2	7877.5
7.5°	9385.2	9225.8	8799.9	8323.6	7877.5	7479.9	7048.0	6751.3	6561.6	6377.9	6402.1
10°	9068.3	8812.0	8192.4	7562.7	6985.4	6349.6	5798.6	5326.4	4975.2	4844.0	4757.2
12.5°	8743.4	8406.3	7619.2	6781.6	5984.3	5223.4	4442.3	3935.7	3548.2	3342.3	3368.6
15°	8446.7	8037.0	7021.8	6000.5	4965.1	4058.9	3279.8	2797.4	2526.9	2470.4	2502.7
17.5°	8172.2	7635.3	6462.7	5241.6	4032.6	3043.6	2464.4	2191.9	2082.9	2052.6	2050.6
20°	7889.6	7294.2	5835.0	4430.2	3142.5	2359.4	2022.4	1895.2	1875.0	1887.1	1889.2
22.5°	7603.0	6872.4	5189.1	3624.9	2502.7	1929.5	1768.1	1733.7	1749.9	1778.1	1782.2
25°	7338.6	6501.0	4567.5	2918.5	1998.1	1695.4	1616.7	1616.7	1653.0	1695.4	1697.4
27.5°	7120.6	6141.8	3947.8	2317.0	1673.2	1525.9	1499.6	1513.7	1564.2	1596.5	1598.5
30°	6941.0	5806.7	3362.5	1856.9	1471.4	1390.6	1384.6	1408.8	1445.1	1475.4	1477.4
32.5°	6805.8	5512.0	2815.6	1560.2	1332.1	1287.7	1285.7	1303.8	1324.0	1332.1	1340.2
35°	6753.3	5267.8	2315.0	1372.5	1239.3	1211.0	1211.0	1209.0	1217.0	1221.1	1225.1
37.5°	6795.7	5080.1	1927.5	1251.4	1170.6	1150.4	1138.3	1126.2	1122.2	1122.2	1124.2
40°	6975.3	4981.2	1638.9	1172.6	1122.2	1091.9	1069.7	1055.6	1041.5	1045.5	1049.5
42.5°	7356.8	4999.4	1443.1	1120.2	1079.8	1037.4	1005.1	989.0	978.9	991.0	989.0
45°	7964.3	5181.0	1318.0	1083.8	1037.4	982.9	952.6	936.5	936.5	954.7	960.7
47.5°	8814.0	5528.2	1251.4	1055.6	1005.1	940.5	910.3	898.2	902.2	932.5	934.5
50°	9851.4	6131.7	1239.3	1041.5	989.0	910.3	876.0	863.8	873.9	906.2	910.3
52.5°	10995.8	6908.7	1297.8	1043.5	974.9	892.1	847.7	829.5	839.6	865.9	873.9
55°	12352.1	7881.6	1449.2	1051.5	954.7	882.0	827.5	787.1	799.3	817.4	819.4
57.5°	13736.7	9108.7	1715.6	1053.6	938.5	863.8	793.2	740.7	740.7	752.8	758.9
60°	15428.1	10444.8	2066.8	1055.6	940.5	837.6	746.8	688.2	680.2	686.2	688.2
62.5°	17107.3	11563.0	2125.3	1049.5	960.7	811.4	696.3	635.8	621.6	619.6	615.6
65°	17848.0	11355.1	1741.8	1021.3	982.9	795.2	656.0	585.3	561.1	553.0	553.0
67.5°	16641.1	9605.2	1309.9	982.9	968.8	779.1	617.6	542.9	514.7	498.5	498.5
69°	15506.8	8543.6	1176.7	956.7	932.5	752.8	593.4	520.7	486.4	468.3	462.2
70°	14630.8	7812.9	1120.2	934.5	898.2	722.6	575.2	504.6	466.2	446.0	442.0
72.5°	11676.0	6129.7	980.9	849.7	764.9	607.5	510.6	454.1	417.8	395.6	389.5
75°	6729.1	3322.2	813.4	738.7	615.6	472.3	431.9	395.6	367.3	347.2	341.1
77.5°	2070.8	1283.7	589.4	583.3	452.1	365.3	345.1	331.0	310.8	288.6	284.6
80°	871.9	653.9	399.6	393.6	300.7	254.3	248.3	246.2	238.2	220.0	213.9
82.5°	478.3	369.4	278.5	242.2	181.6	147.3	153.4	155.4	149.4	131.2	119.1
85°	234.1	201.8	135.2	109.0	82.8	52.5	50.5	60.5	56.5	40.4	44.4
87.5°	46.4	56.5	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)