

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: P456171

Luminaire Tested: **GALN-SA7B-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31437 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 286
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

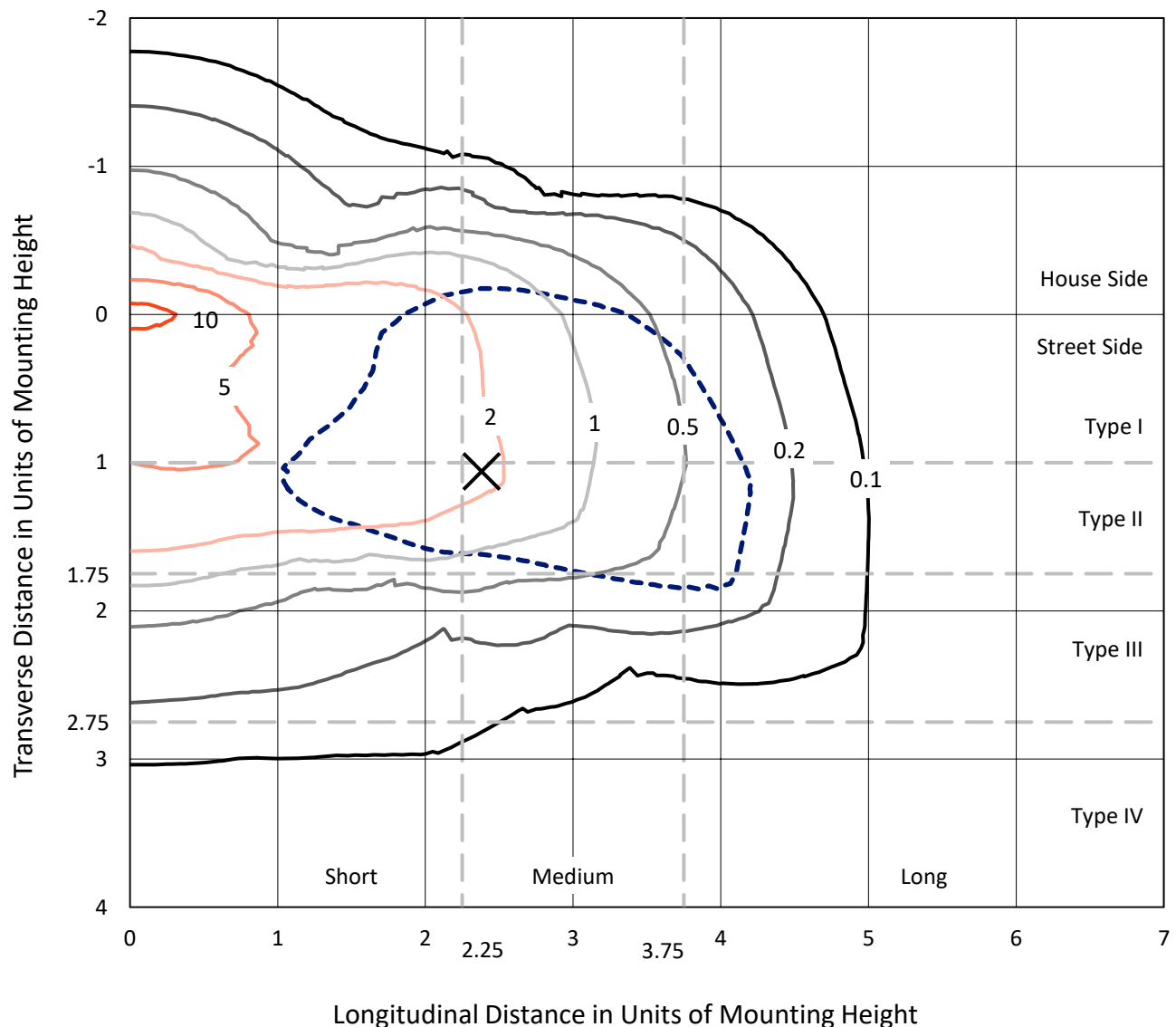


REPORT NUMBER: P456171

CATALOG NUMBER: GALN-SA7B-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

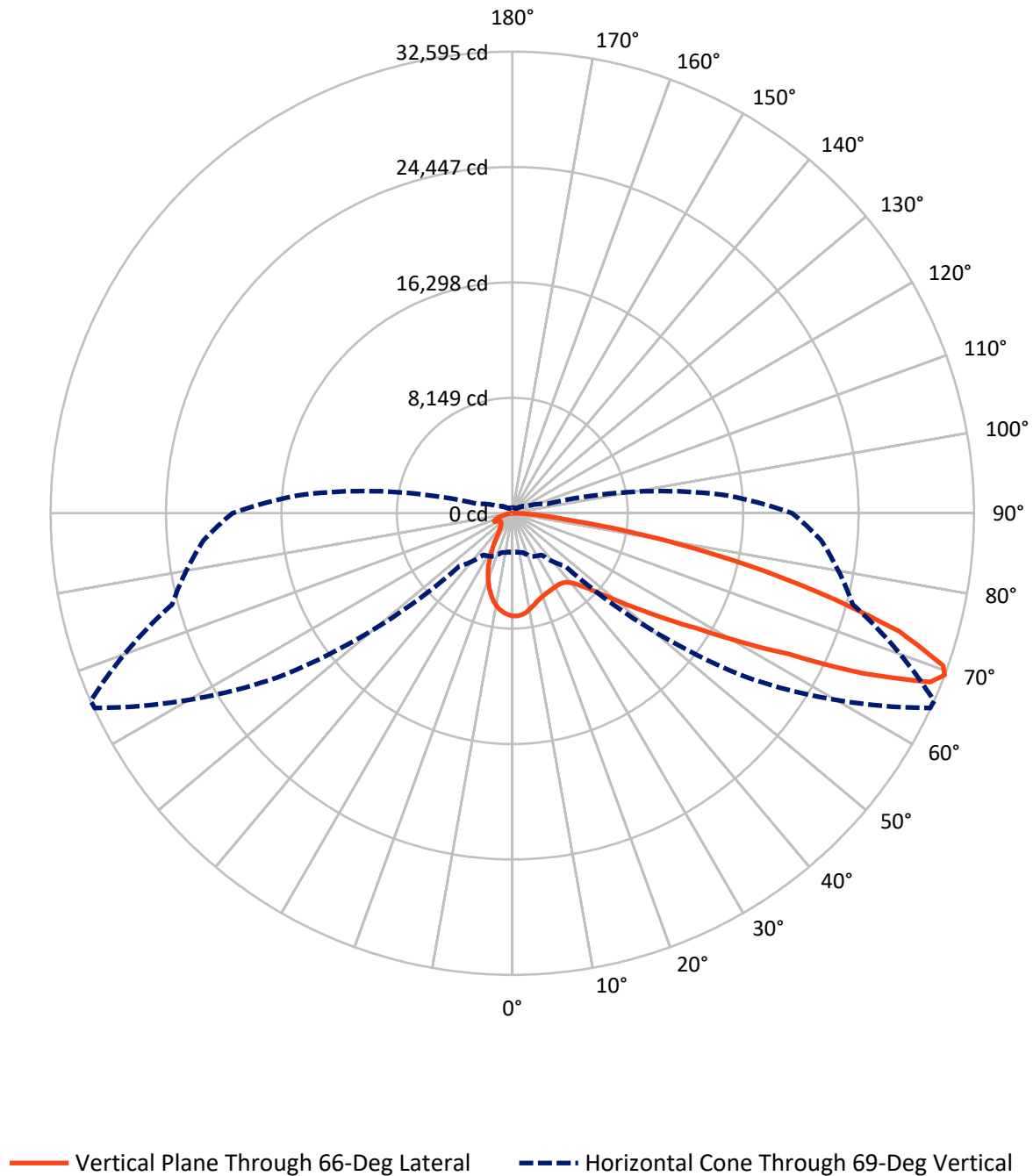


Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P456171

CATALOG NUMBER: GALN-SA7B-830-U-SL2

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5912.1	0.0	5912.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	25524.9	0.0	25524.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	31437.0	0.0	31437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.4	2.0
10°-20°	1495.3	4.8
20°-30°	2035.7	6.5
30°-40°	2735.5	8.7
40°-50°	4084.6	13.0
50°-60°	6497.2	20.7
60°-70°	7991.2	25.4
70°-80°	5199.4	16.5
80°-90°	767.8	2.4
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°	31437.0	100.0
0°-180°	31437.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456171

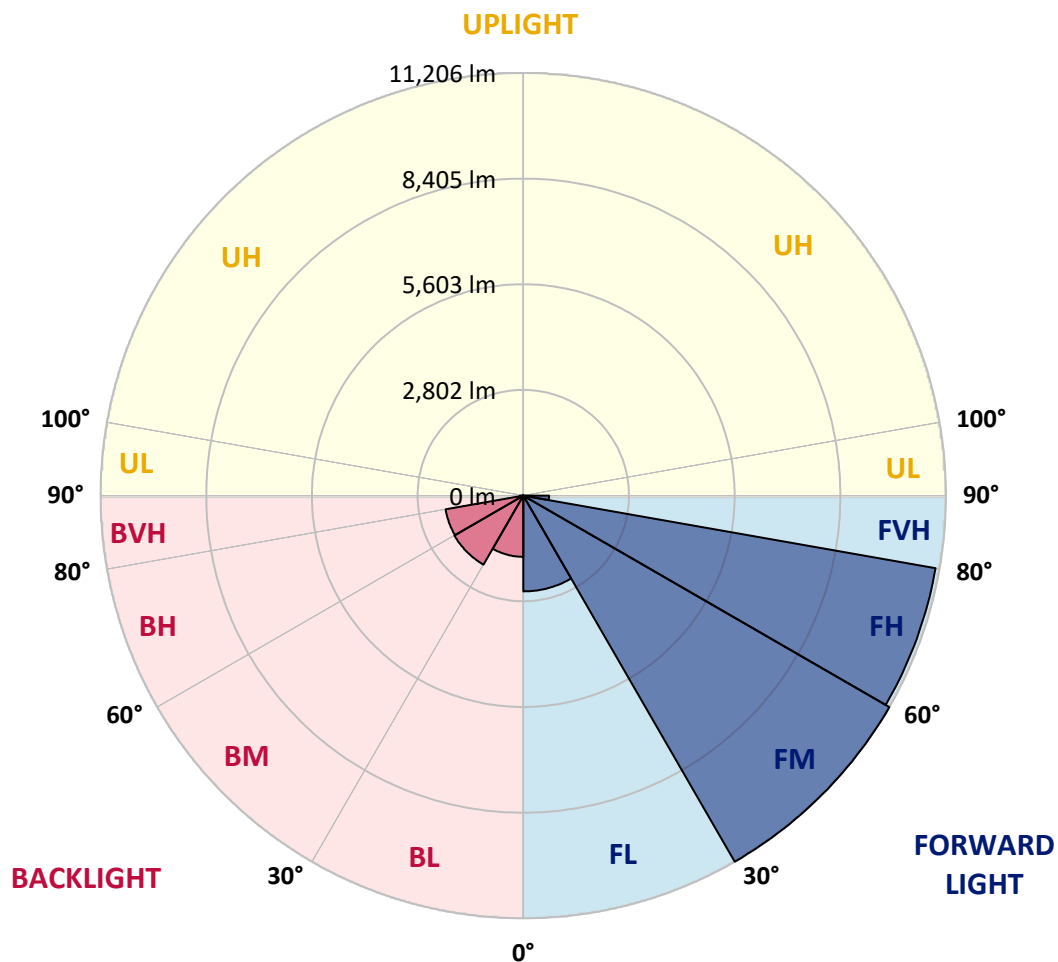
CATALOG NUMBER: GALN-SA7B-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2538.5	8.1			
FM	(30°-60°)	11206.3	35.6			
FH	(60°-80°)	11097.4	35.3			G4/12000
FVH	(80°-90°)	682.6	2.2			G4/750
BL	(0°-30°)	1622.9	5.2	B3/2500		
BM	(30°-60°)	2110.9	6.7	B2/2500		
BH	(60°-80°)	2093.2	6.7	B3/2500		G3/2500
BVH	(80°-90°)	85.2	0.3			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: P456171

CATALOG NUMBER: GALN-SA7B-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7259.7	7259.7	7259.7	7259.7	7259.7	7259.7	7259.7	7259.7	7259.7	7259.7	7259.7
2.5°	7005.5	7033.4	7064.7	7099.5	7165.7	7202.2	7228.3	7257.9	7261.4	7277.1	7264.9
5°	6488.4	6521.5	6568.5	6634.7	6733.9	6888.9	7049.0	7179.6	7195.3	7268.4	7289.3
7.5°	6056.7	6075.8	6114.1	6220.3	6361.4	6533.7	6767.0	7031.6	7069.9	7244.0	7304.9
10°	5705.0	5724.2	5769.4	5879.1	6018.4	6234.3	6490.2	6838.4	6869.7	7169.1	7308.4
12.5°	5442.1	5459.6	5508.3	5616.2	5776.4	5978.4	6260.4	6629.5	6674.7	7069.9	7275.3
15°	5241.9	5275.0	5315.1	5403.8	5572.7	5767.7	6041.0	6438.0	6474.5	6965.5	7252.7
17.5°	5156.6	5172.3	5200.2	5282.0	5405.6	5597.1	5872.2	6288.2	6331.8	6892.3	7247.5
20°	5160.1	5175.8	5181.0	5226.3	5315.1	5480.4	5752.0	6169.9	6222.1	6827.9	7256.2
22.5°	5278.5	5280.2	5261.1	5245.4	5280.2	5417.8	5666.7	6081.1	6142.0	6800.1	7263.2
25°	5461.3	5492.6	5464.8	5391.7	5327.2	5393.4	5633.6	6032.3	6089.8	6760.0	7254.5
27.5°	5757.3	5762.5	5739.8	5640.6	5473.5	5424.7	5619.7	5995.8	6044.5	6730.4	7210.9
30°	6154.2	6138.5	6117.6	6007.9	5745.1	5544.9	5649.3	5962.7	6013.2	6686.9	7158.7
32.5°	6556.3	6605.1	6585.9	6457.1	6115.9	5778.1	5745.1	5959.2	6001.0	6653.8	7101.3
35°	6982.9	7005.5	7096.0	7029.9	6679.9	6155.9	5924.4	6013.2	6046.2	6655.6	7061.2
37.5°	7317.1	7378.1	7590.5	7647.9	7318.9	6655.6	6215.1	6166.4	6180.3	6740.9	7076.9
40°	7721.0	7825.5	8098.8	8333.8	8118.0	7304.9	6709.5	6450.1	6467.6	6946.3	7179.6
42.5°	8232.9	8306.0	8673.3	8991.9	8957.1	8163.2	7308.4	6915.0	6923.7	7355.4	7466.8
45°	8831.7	8936.2	9348.8	9827.5	9909.4	9134.7	8173.7	7618.3	7613.1	7990.9	8003.1
47.5°	9597.7	9662.2	10071.3	10593.6	10924.3	10355.0	9223.4	8628.0	8572.3	8917.0	8817.8
50°	10302.8	10403.8	10713.7	11284.7	12108.2	11784.4	10604.0	9937.2	9806.7	10128.7	9961.6
52.5°	10598.8	10705.0	10966.1	11674.7	13123.1	13633.2	12357.1	11498.8	11281.2	11528.4	11467.5
55°	10085.2	10222.7	10466.5	11328.2	13568.8	15765.9	14721.3	13304.2	13145.8	13039.6	13057.0
57.5°	8704.6	8835.2	9164.3	10114.8	13036.1	17313.5	18097.0	15624.8	15285.4	14796.2	14879.7
60°	6626.0	6707.8	6878.4	7931.7	11457.1	17715.7	21930.5	18558.3	18342.4	16545.8	16605.0
62.5°	4705.7	4798.0	4916.4	5442.1	8387.8	16582.4	24931.9	22654.7	21883.5	18358.1	18300.7
65°	3821.3	3758.7	3901.4	4146.9	4921.6	12851.5	25607.3	28340.6	27278.6	20744.9	19947.6
67.5°	3142.4	3076.2	3217.2	3654.2	3743.0	7459.9	23173.5	32031.4	31819.0	23340.6	21620.6
69°	2782.0	2747.2	2870.8	3368.7	3593.3	5297.6	20187.8	32544.9	32595.4	24870.9	21878.3
70°	2506.9	2520.9	2641.0	3224.2	3525.4	4368.0	17254.4	31836.4	32264.6	25635.2	21599.7
72.5°	1845.4	1875.0	2042.1	2670.6	3461.0	3706.4	10268.0	27807.9	28565.2	25680.5	19759.6
75°	1290.0	1276.1	1424.1	2010.8	3269.5	3673.4	6030.6	21505.7	22364.0	22196.9	16603.2
77.5°	844.4	867.0	985.4	1420.6	2750.7	3645.5	3931.0	15257.5	15814.6	14844.9	9820.6
80°	595.4	593.7	659.8	969.7	2040.4	3502.8	3219.0	9616.9	9475.9	5833.9	2912.6
82.5°	341.2	365.6	442.2	682.4	1364.9	3083.2	2961.3	4599.5	4199.1	1662.6	983.6
85°	189.8	198.5	262.9	412.6	797.3	2322.4	2585.3	2092.6	1974.2	694.6	423.0
87.5°	60.9	66.2	109.7	208.9	362.1	1096.8	1464.1	966.2	891.4	250.7	170.6
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: P456171

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7259.7	7259.7	7259.7	7259.7	7259.7	7259.7	7259.7	7259.7	7259.7	7259.7	7259.7
2.5°	7270.1	7291.0	7235.3	7181.3	7132.6	7064.7	7003.8	6953.3	6918.5	6913.2	6895.8
5°	7294.5	7296.2	7190.0	7047.3	6908.0	6754.8	6596.4	6483.2	6377.0	6317.8	6288.2
7.5°	7311.9	7296.2	7104.7	6873.2	6605.1	6326.5	6048.0	5825.2	5652.8	5584.9	5611.0
10°	7304.9	7256.2	6975.9	6605.1	6215.1	5799.0	5398.6	5085.3	4798.0	4650.0	4653.5
12.5°	7266.6	7186.6	6784.4	6303.9	5731.1	5174.0	4561.2	4138.2	3805.7	3608.9	3548.0
15°	7233.6	7094.3	6559.8	5894.8	5182.7	4387.1	3640.3	3118.0	2839.5	2684.5	2682.8
17.5°	7198.7	7005.5	6314.4	5461.3	4552.5	3528.9	2745.4	2346.8	2216.2	2231.9	2205.8
20°	7162.2	6901.0	6058.4	4979.1	3784.8	2632.3	2056.0	1894.1	1930.7	2002.1	2012.5
22.5°	7120.4	6789.6	5783.4	4448.1	2977.0	1981.2	1667.8	1643.4	1737.4	1848.9	1864.5
25°	7056.0	6650.4	5436.9	3892.7	2296.3	1596.4	1460.6	1478.0	1570.3	1664.3	1674.8
27.5°	6965.5	6478.0	5087.0	3199.8	1725.3	1370.1	1335.3	1357.9	1403.2	1460.6	1474.6
30°	6843.6	6283.0	4684.8	2600.9	1382.3	1257.0	1243.0	1255.2	1281.3	1305.7	1312.7
32.5°	6721.7	6095.0	4279.2	1991.6	1232.6	1182.1	1168.2	1168.2	1168.2	1171.6	1173.4
35°	6608.6	5917.4	3844.0	1551.2	1154.2	1122.9	1103.7	1082.9	1079.4	1067.2	1067.2
37.5°	6545.9	5755.5	3380.9	1298.7	1096.8	1074.2	1048.0	1013.2	994.1	995.8	992.3
40°	6558.1	5649.3	2959.6	1156.0	1049.8	1025.4	985.4	945.3	933.1	933.1	929.7
42.5°	6695.6	5614.5	2555.7	1081.1	1004.5	976.7	926.2	889.6	882.7	880.9	884.4
45°	7012.5	5699.8	2193.6	1032.4	966.2	924.4	873.9	840.9	833.9	833.9	832.2
47.5°	7630.5	5976.6	1934.2	1001.0	938.4	884.4	832.2	799.1	786.9	783.4	783.4
50°	8591.5	6577.2	1740.9	973.2	903.5	847.8	793.9	755.6	736.4	734.7	732.9
52.5°	9926.8	7513.9	1666.1	952.3	865.2	809.5	750.3	713.8	689.4	684.2	680.7
55°	11488.4	8821.3	1768.8	936.6	825.2	766.0	705.1	666.8	644.1	633.7	632.0
57.5°	13297.2	10391.6	2158.8	915.7	788.6	719.0	659.8	621.5	597.1	585.0	581.5
60°	14921.5	12005.5	2839.5	903.5	757.3	668.5	607.6	572.8	550.1	537.9	536.2
62.5°	16706.0	13544.4	3652.5	936.6	743.4	619.8	558.8	527.5	508.4	496.2	496.2
65°	18612.3	15085.2	4190.4	1048.0	764.3	581.5	506.6	480.5	463.1	454.4	452.6
67.5°	19897.1	15617.9	3452.3	1162.9	816.5	539.7	456.1	435.2	424.8	416.1	416.1
69°	19757.8	14944.1	2547.0	1192.5	832.2	518.8	428.3	412.6	398.7	395.2	391.7
70°	19317.4	14176.4	2134.4	1173.4	820.0	499.6	410.9	391.7	379.5	376.0	374.3
72.5°	17205.6	12294.4	1589.5	1020.2	698.1	433.5	363.9	346.4	336.0	330.8	330.8
75°	14294.8	10048.6	1241.3	811.3	546.7	365.6	311.6	297.7	289.0	285.5	283.8
77.5°	8011.8	5611.0	891.4	635.4	414.3	296.0	261.1	249.0	240.2	236.8	236.8
80°	2231.9	1603.4	524.0	419.6	282.0	224.6	207.2	198.5	186.3	177.6	182.8
82.5°	840.9	694.6	299.4	252.4	179.3	149.7	144.5	137.5	132.3	120.1	120.1
85°	409.1	337.7	191.5	134.1	99.2	78.3	74.9	71.4	67.9	59.2	60.9
87.5°	141.0	149.7	83.6	48.7	29.6	19.2	15.7	8.7	8.7	8.7	8.7
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)