

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: P455678

Luminaire Tested: **GALN-SA6D-827-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455678
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-SA6D-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA 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: 33661 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

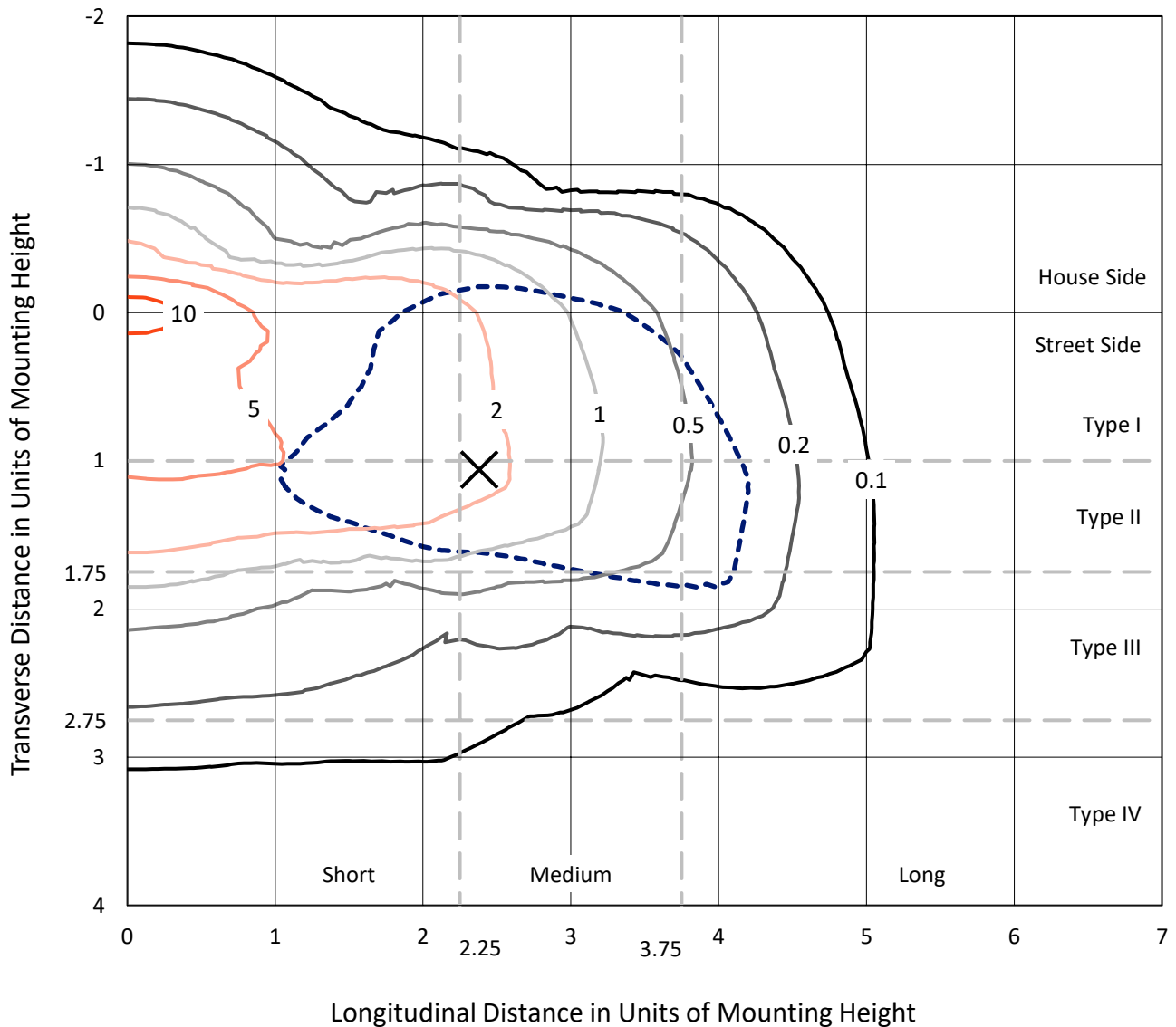
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455678
 CATALOG NUMBER: GALN-SA6D-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

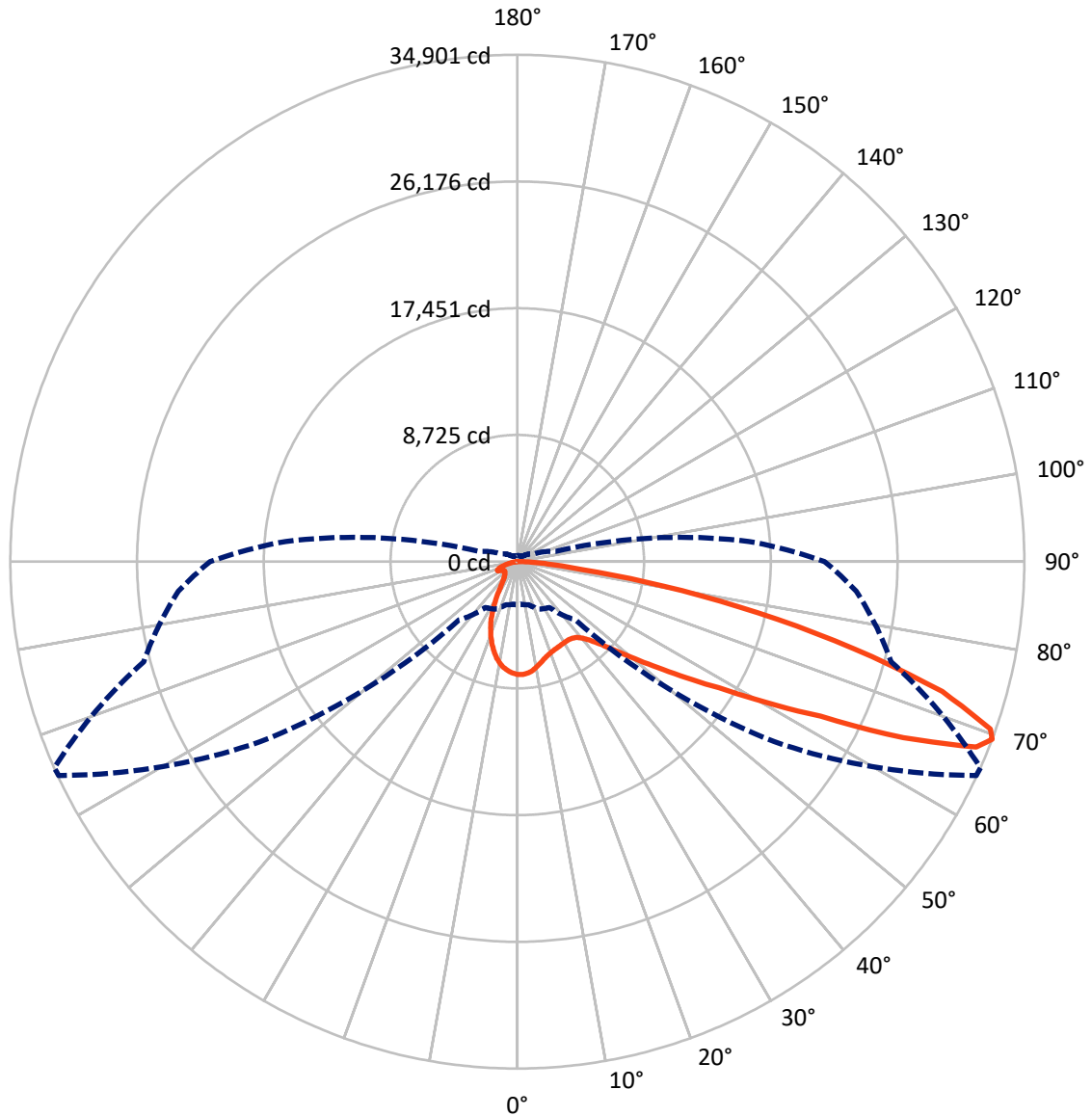
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P455678
CATALOG NUMBER: GALN-SA6D-827-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P455678

CATALOG NUMBER: GALN-SA6D-827-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6330.4	0.0	6330.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	27330.6	0.0	27330.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	33661.0	0.0	33661.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.0	2.0
10°-20°	1601.1	4.8
20°-30°	2179.7	6.5
30°-40°	2929.0	8.7
40°-50°	4373.5	13.0
50°-60°	6956.8	20.7
60°-70°	8556.5	25.4
70°-80°	5567.2	16.5
80°-90°	822.1	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°	33661.0	100.0
0°-180°	33661.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455678

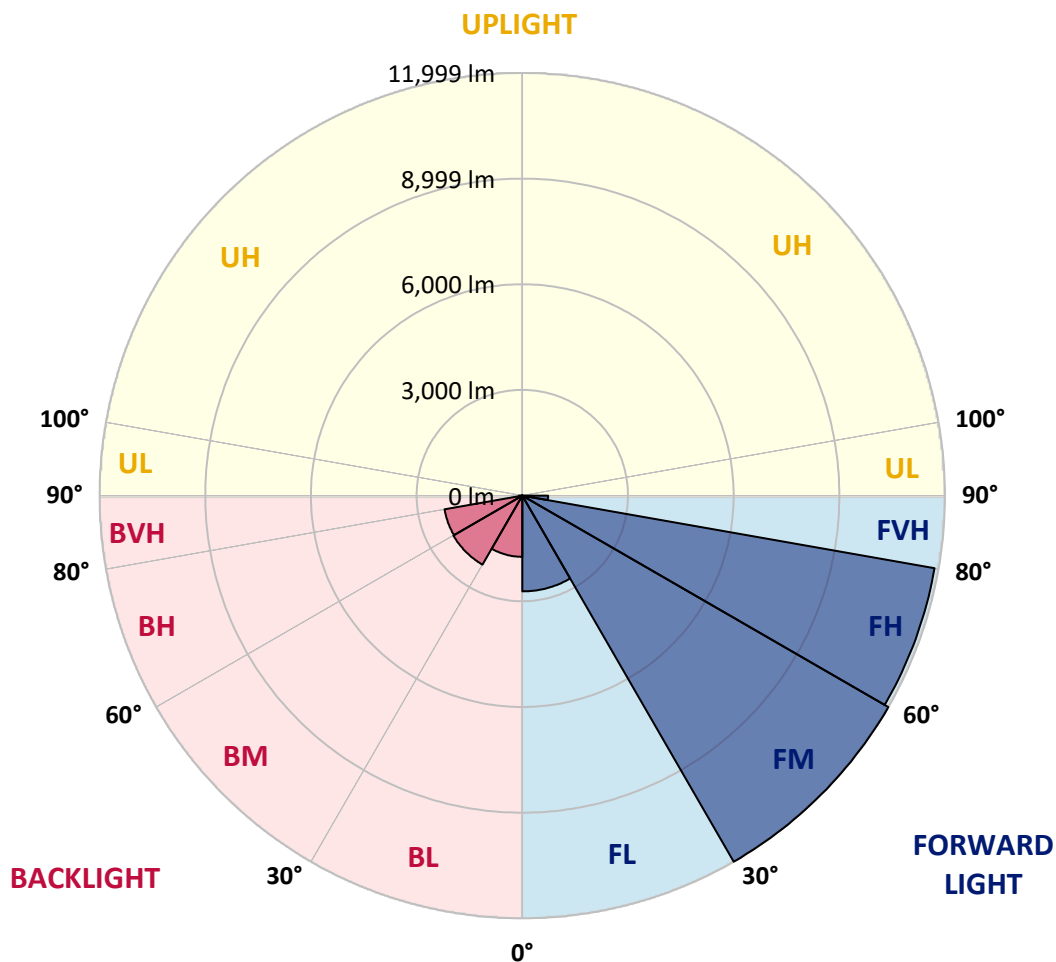
CATALOG NUMBER: GALN-SA6D-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2718.1	8.1			
FM	(30°-60°)	11999.1	35.6			
FH	(60°-80°)	11882.5	35.3			G4/12000
FVH	(80°-90°)	730.9	2.2			G4/750
BL	(0°-30°)	1737.7	5.2	B3/2500		
BM	(30°-60°)	2260.2	6.7	B2/2500		
BH	(60°-80°)	2241.2	6.7	B3/2500		G3/2500
BVH	(80°-90°)	91.2	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: P455678

CATALOG NUMBER: GALN-SA6D-827-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7773.3	7773.3	7773.3	7773.3	7773.3	7773.3	7773.3	7773.3	7773.3	7773.3	7773.3
2.5°	7501.1	7530.9	7564.5	7601.8	7672.6	7711.7	7739.7	7771.4	7775.1	7791.9	7778.9
5°	6947.5	6982.9	7033.2	7104.1	7210.3	7376.2	7547.7	7687.5	7704.3	7782.6	7804.9
7.5°	6485.2	6505.7	6546.7	6660.4	6811.4	6995.9	7245.7	7529.1	7570.1	7756.5	7821.7
10°	6108.6	6129.1	6177.6	6295.0	6444.2	6675.3	6949.3	7322.2	7355.7	7676.3	7825.5
12.5°	5827.1	5845.8	5898.0	6013.6	6185.1	6401.3	6703.3	7098.5	7146.9	7570.1	7790.0
15°	5612.8	5648.2	5691.1	5786.1	5967.0	6175.7	6468.4	6893.4	6932.6	7458.2	7765.8
17.5°	5521.4	5538.2	5568.0	5655.7	5788.0	5993.1	6287.6	6733.1	6779.7	7379.9	7760.2
20°	5525.2	5541.9	5547.5	5596.0	5691.1	5868.2	6159.0	6606.3	6662.3	7311.0	7769.5
22.5°	5651.9	5653.8	5633.3	5616.5	5653.8	5801.1	6067.6	6511.3	6576.5	7281.1	7777.0
25°	5847.7	5881.2	5851.4	5773.1	5704.1	5775.0	6032.2	6459.1	6520.6	7238.3	7767.7
27.5°	6164.5	6170.1	6145.9	6039.7	5860.7	5808.5	6017.3	6419.9	6472.1	7206.6	7721.1
30°	6589.6	6572.8	6550.4	6433.0	6151.5	5937.1	6049.0	6384.5	6438.6	7160.0	7665.1
32.5°	7020.2	7072.4	7051.9	6913.9	6548.6	6186.9	6151.5	6380.8	6425.5	7124.6	7603.6
35°	7476.9	7501.1	7598.0	7527.2	7152.5	6591.4	6343.5	6438.6	6474.0	7126.4	7560.8
37.5°	7834.8	7900.0	8127.4	8189.0	7836.6	7126.4	6654.8	6602.6	6617.5	7217.8	7577.5
40°	8267.2	8379.1	8671.8	8923.4	8692.3	7821.7	7184.2	6906.5	6925.1	7437.7	7687.5
42.5°	8815.3	8893.6	9286.9	9628.0	9590.7	8740.7	7825.5	7404.2	7413.5	7875.8	7995.1
45°	9456.5	9568.4	10010.2	10522.8	10610.4	9780.9	8751.9	8157.3	8151.7	8556.2	8569.2
47.5°	10276.7	10345.7	10783.8	11343.0	11697.2	11087.6	9876.0	9238.4	9178.8	9547.9	9441.6
50°	11031.7	11139.8	11471.6	12083.0	12964.8	12618.0	11354.2	10640.2	10500.4	10845.3	10666.3
52.5°	11348.6	11462.3	11741.9	12500.6	14051.5	14597.7	13231.3	12312.3	12079.3	12344.0	12278.8
55°	10798.7	10945.9	11206.9	12129.6	14528.7	16881.2	15762.8	14245.4	14075.8	13962.0	13980.7
57.5°	9320.5	9460.3	9812.6	10830.4	13958.3	18538.4	19377.2	16730.2	16366.7	15842.9	15932.4
60°	7094.7	7182.3	7365.0	8492.8	12267.6	18969.0	23482.0	19871.2	19640.1	17716.3	17779.7
62.5°	5038.6	5137.4	5264.2	5827.1	8981.2	17755.5	26695.6	24257.4	23431.6	19656.8	19595.3
65°	4091.7	4024.6	4177.4	4440.3	5269.8	13760.7	27418.9	30345.5	29208.4	22212.5	21358.8
67.5°	3364.7	3293.8	3444.8	3912.7	4007.8	7987.6	24812.9	34297.4	34070.0	24991.9	23150.1
69°	2978.8	2941.5	3073.9	3607.0	3847.5	5672.4	21616.0	34847.3	34901.4	26630.4	23426.0
70°	2684.3	2699.2	2827.8	3452.3	3774.8	4677.0	18475.0	34088.6	34547.2	27448.7	23127.8
72.5°	1975.9	2007.6	2186.6	2859.5	3705.8	3968.7	10994.4	29775.1	30586.0	27497.2	21157.4
75°	1381.3	1366.4	1524.8	2153.0	3500.8	3933.2	6457.2	23027.1	23946.1	23767.2	17777.8
77.5°	904.1	928.3	1055.1	1521.1	2945.3	3903.4	4209.1	16336.9	16933.4	15895.1	10515.3
80°	637.5	635.7	706.5	1038.3	2184.7	3750.6	3446.7	10297.2	10146.2	6246.6	3118.6
82.5°	365.4	391.5	473.5	730.7	1461.4	3301.3	3170.8	4924.9	4496.2	1780.2	1053.2
85°	203.2	212.5	281.5	441.8	853.8	2486.7	2768.2	2240.6	2113.9	743.8	453.0
87.5°	65.2	70.8	117.4	223.7	387.7	1174.4	1567.7	1034.6	954.4	268.4	182.7
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: P455678
 CATALOG NUMBER: GALN-SA6D-827-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7773.3	7773.3	7773.3	7773.3	7773.3	7773.3	7773.3	7773.3	7773.3	7773.3	7773.3
2.5°	7784.4	7806.8	7747.2	7689.4	7637.2	7564.5	7499.2	7445.2	7407.9	7402.3	7383.7
5°	7810.5	7812.4	7698.7	7545.8	7396.7	7232.7	7063.0	6941.9	6828.2	6764.8	6733.1
7.5°	7829.2	7812.4	7607.4	7359.4	7072.4	6774.1	6475.9	6237.2	6052.7	5980.0	6008.0
10°	7821.7	7769.5	7469.4	7072.4	6654.8	6209.3	5780.5	5445.0	5137.4	4979.0	4982.7
12.5°	7780.7	7695.0	7264.4	6749.9	6136.6	5540.1	4883.9	4430.9	4074.9	3864.3	3799.0
15°	7745.3	7596.2	7023.9	6311.8	5549.4	4697.5	3897.8	3338.6	3040.3	2874.4	2872.6
17.5°	7708.0	7501.1	6761.1	5847.7	4874.6	3778.5	2939.7	2512.8	2373.0	2389.8	2361.8
20°	7668.9	7389.3	6487.0	5331.3	4052.5	2818.5	2201.5	2028.1	2067.3	2143.7	2154.9
22.5°	7624.1	7270.0	6192.5	4762.8	3187.6	2121.3	1785.8	1759.7	1860.4	1979.7	1996.4
25°	7555.2	7120.8	5821.6	4168.1	2458.7	1709.4	1564.0	1582.6	1681.4	1782.1	1793.3
27.5°	7458.2	6936.3	5446.9	3426.2	1847.3	1467.0	1429.8	1454.0	1502.5	1564.0	1578.9
30°	7327.7	6727.5	5016.3	2785.0	1480.1	1345.9	1331.0	1344.0	1372.0	1398.1	1405.5
32.5°	7197.3	6526.2	4581.9	2132.5	1319.8	1265.7	1250.8	1250.8	1250.8	1254.5	1256.4
35°	7076.1	6336.0	4115.9	1660.9	1235.9	1202.3	1181.8	1159.5	1155.7	1142.7	1142.7
37.5°	7009.0	6162.7	3620.1	1390.6	1174.4	1150.1	1122.2	1084.9	1064.4	1066.3	1062.5
40°	7022.0	6049.0	3169.0	1237.8	1124.0	1097.9	1055.1	1012.2	999.2	999.2	995.4
42.5°	7169.3	6011.7	2736.5	1157.6	1075.6	1045.8	991.7	952.6	945.1	943.2	947.0
45°	7508.6	6103.0	2348.8	1105.4	1034.6	989.8	935.8	900.4	892.9	892.9	891.0
47.5°	8170.3	6399.4	2071.0	1071.9	1004.7	947.0	891.0	855.6	842.6	838.8	838.8
50°	9199.3	7042.5	1864.1	1042.0	967.5	907.8	850.0	809.0	788.5	786.6	784.8
52.5°	10629.0	8045.4	1783.9	1019.7	926.5	866.8	803.4	764.3	738.2	732.6	728.9
55°	12301.1	9445.3	1893.9	1002.9	883.6	820.2	755.0	713.9	689.7	678.5	676.7
57.5°	14237.9	11126.8	2311.5	980.5	844.4	769.9	706.5	665.5	639.4	626.3	622.6
60°	15977.1	12854.8	3040.3	967.5	810.9	715.8	650.6	613.3	589.1	576.0	574.1
62.5°	17887.8	14502.6	3910.9	1002.9	796.0	663.6	598.4	564.8	544.3	531.3	531.3
65°	19929.0	16152.3	4486.9	1122.2	818.3	622.6	542.5	514.5	495.8	486.5	484.7
67.5°	21304.7	16722.8	3696.5	1245.2	874.3	577.9	488.4	466.0	454.8	445.5	445.5
69°	21155.6	16001.4	2727.2	1276.9	891.0	555.5	458.6	441.8	426.9	423.1	419.4
70°	20684.0	15179.3	2285.4	1256.4	878.0	535.0	439.9	419.4	406.4	402.6	400.8
72.5°	18422.8	13164.2	1701.9	1092.4	747.5	464.2	389.6	371.0	359.8	354.2	354.2
75°	15306.1	10759.5	1329.1	868.7	585.3	391.5	333.7	318.8	309.4	305.7	303.8
77.5°	8578.5	6008.0	954.4	680.4	443.7	316.9	279.6	266.6	257.2	253.5	253.5
80°	2389.8	1716.8	561.1	449.2	302.0	240.5	221.8	212.5	199.5	190.1	195.7
82.5°	900.4	743.8	320.6	270.3	192.0	160.3	154.7	147.3	141.7	128.6	128.6
85°	438.1	361.6	205.1	143.5	106.3	83.9	80.2	76.4	72.7	63.4	65.2
87.5°	151.0	160.3	89.5	52.2	31.7	20.5	16.8	9.3	9.3	9.3	9.3
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)