

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: P457102

Luminaire Tested: **GALN-SA8B-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30034 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - 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

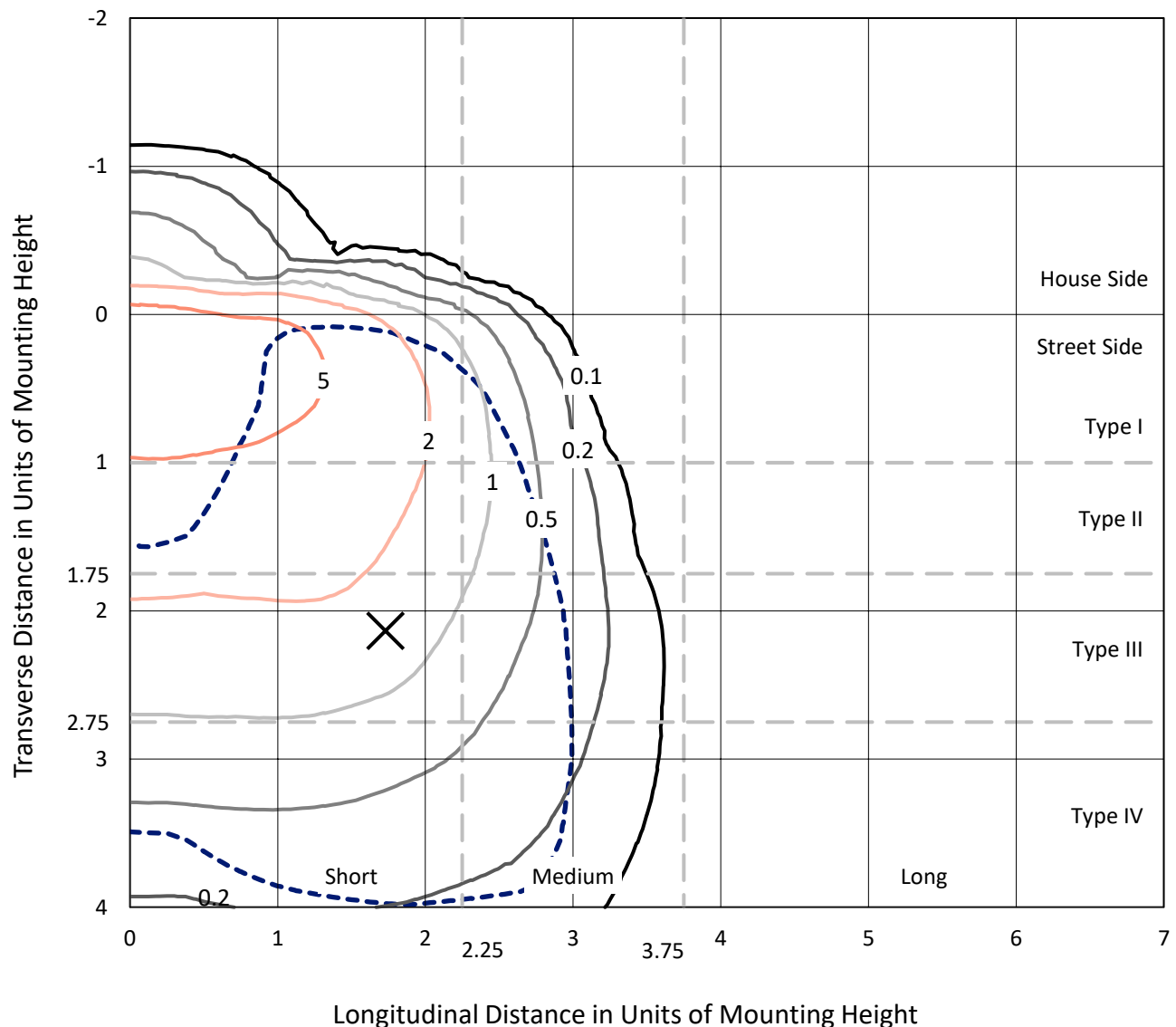


REPORT NUMBER: P457102

CATALOG NUMBER: GALN-SA8B-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

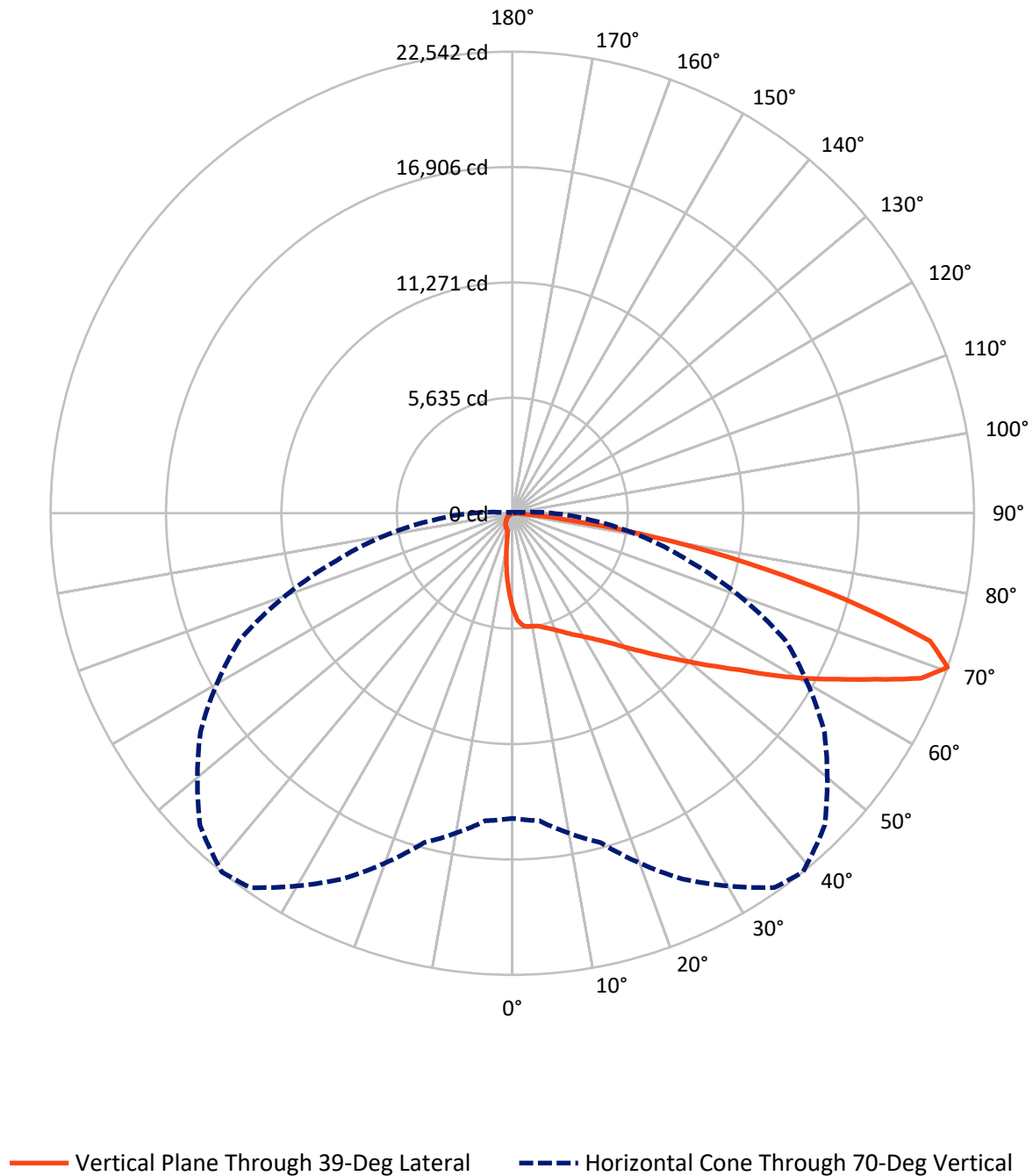
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P457102
CATALOG NUMBER: GALN-SA8B-830-U-SL4-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P457102

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1958.4	0.0	1958.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	28075.6	0.0	28075.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	30034.0	0.0	30034.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.7	1.3
10°-20°	1038.7	3.5
20°-30°	1740.2	5.8
30°-40°	2698.8	9.0
40°-50°	4276.8	14.2
50°-60°	6269.1	20.9
60°-70°	8035.5	26.8
70°-80°	5049.2	16.8
80°-90°	526.0	1.8
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°	30034.0	100.0
0°-180°	30034.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457102

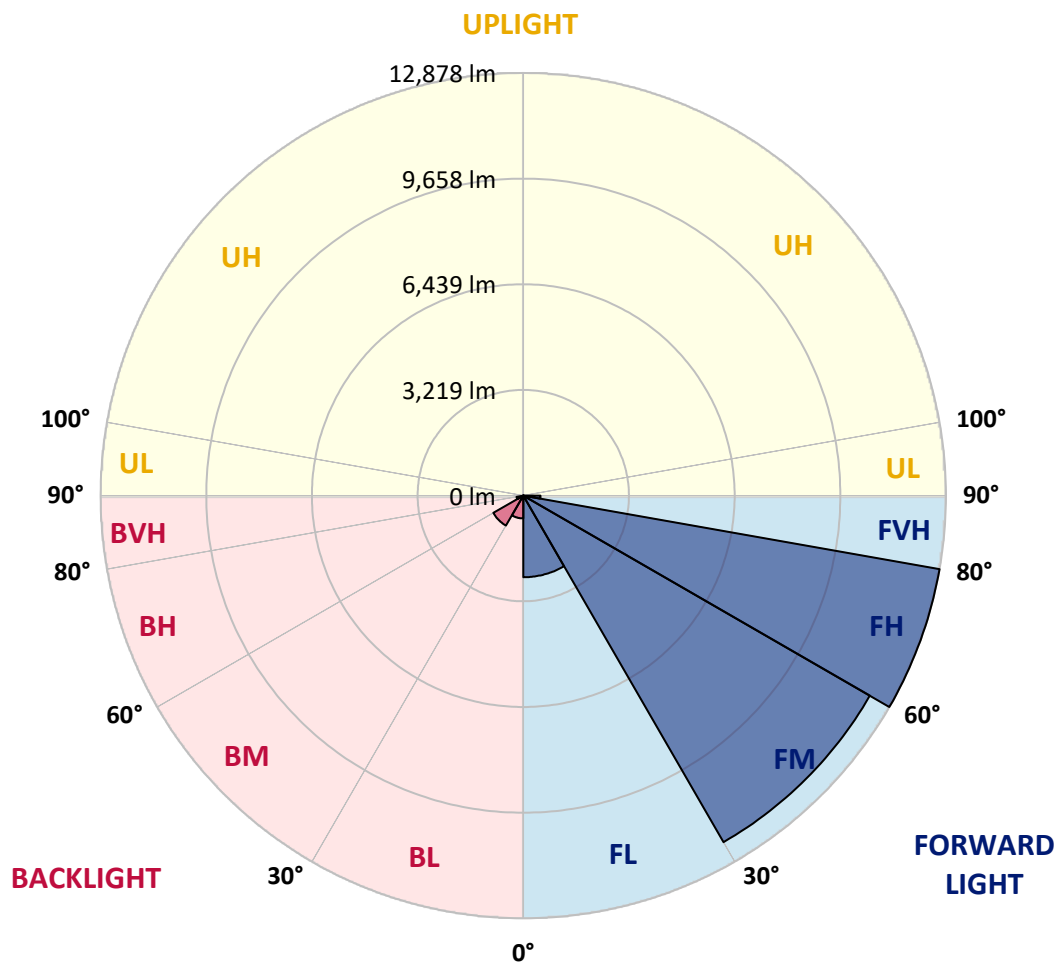
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2485.2	8.3			
FM	(30°-60°)	12190.7	40.6			
FH	(60°-80°)	12877.6	42.9			G5
FVH	(80°-90°)	522.1	1.7			G4/750
BL	(0°-30°)	693.4	2.3	B2/1000		
BM	(30°-60°)	1053.9	3.5	B2/2500		
BH	(60°-80°)	207.1	0.7	B1/500		G1/500
BVH	(80°-90°)	3.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





REPORT NUMBER: P457102

CATALOG NUMBER: GALN-SA8B-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3
2.5°	5414.9	5396.8	5372.5	5344.3	5263.5	5249.4	5201.0	5098.1	4974.9	4874.0	4734.8
5°	5671.2	5681.3	5663.2	5612.7	5554.2	5519.9	5459.3	5299.9	5140.4	4936.6	4708.5
7.5°	5729.8	5749.9	5727.7	5679.3	5622.8	5586.5	5538.0	5400.8	5215.1	4983.0	4670.2
10°	5723.7	5747.9	5733.8	5689.4	5643.0	5608.7	5556.2	5447.2	5297.9	5053.7	4682.3
12.5°	5713.6	5745.9	5743.9	5721.7	5683.3	5657.1	5624.8	5527.9	5388.7	5156.6	4748.9
15°	5685.4	5725.7	5762.1	5780.2	5782.2	5782.2	5741.9	5638.9	5505.7	5291.8	4835.7
17.5°	5697.5	5743.9	5834.7	5887.2	5923.5	5919.5	5877.1	5766.1	5618.8	5431.1	4926.5
20°	5772.1	5834.7	5961.9	6066.8	6103.1	6091.0	6034.5	5905.3	5737.8	5550.1	5015.3
22.5°	5955.8	6012.3	6171.8	6294.9	6321.1	6288.8	6208.1	6032.5	5881.1	5679.3	5122.3
25°	6230.3	6296.9	6444.2	6537.1	6537.1	6518.9	6405.9	6200.0	6042.6	5858.9	5261.5
27.5°	6563.3	6619.8	6765.1	6847.9	6799.4	6746.9	6633.9	6385.7	6234.3	6085.0	5429.0
30°	6900.3	6936.7	7090.0	7126.4	7075.9	7009.3	6888.2	6640.0	6506.8	6391.7	5671.2
32.5°	7219.2	7297.9	7425.1	7417.0	7348.4	7316.1	7205.1	6940.7	6866.0	6853.9	6010.3
35°	7538.1	7598.6	7711.7	7739.9	7679.4	7673.3	7592.6	7396.8	7398.8	7477.5	6539.1
37.5°	7812.6	7867.1	8000.3	8062.8	8074.9	8105.2	8072.9	7943.8	8127.4	8343.4	7239.4
40°	8042.7	8119.3	8288.9	8397.9	8523.0	8634.0	8640.1	8668.3	9037.6	9409.0	8153.7
42.5°	8222.3	8329.2	8575.5	8777.3	9063.9	9205.2	9318.2	9473.6	10095.2	10650.2	9231.4
45°	8456.4	8579.5	8886.3	9203.1	9651.2	9883.3	10040.7	10456.5	11338.4	12095.3	10337.4
47.5°	8843.9	8908.5	9221.3	9683.5	10272.8	10603.8	10910.6	11540.2	12672.5	13350.6	11257.7
50°	9342.4	9384.8	9620.9	10262.7	11025.6	11461.5	12020.6	12761.3	14057.0	14392.0	11778.4
52.5°	9893.4	9907.5	10085.1	10900.5	11869.2	12418.2	13043.8	13958.1	15185.2	15134.7	12123.5
55°	10533.2	10513.0	10664.3	11592.7	12868.2	13495.9	14224.5	15183.2	16164.0	15661.5	12321.3
57.5°	11265.8	11211.3	11358.6	12511.0	14147.8	14898.6	15639.3	16240.7	16922.9	16103.5	12416.2
60°	12032.7	11923.7	12099.3	13542.3	15655.4	16367.9	16983.4	17144.9	17722.1	16454.6	12252.7
62.5°	12644.2	12646.2	12973.2	14640.3	17205.4	17829.1	18156.0	18301.3	18410.3	16378.0	11392.9
65°	13598.8	13631.1	14153.9	16164.0	18999.6	19540.5	19764.5	19292.3	18440.6	15425.3	10101.3
67.5°	14583.7	14686.7	15643.3	18263.0	21072.4	21508.3	21219.7	19484.0	17617.1	13251.7	7659.2
70°	14904.6	15074.2	16650.4	19708.0	22315.6	22541.6	21564.8	18589.9	14727.0	8860.0	3854.8
72.5°	13657.4	13931.9	16071.2	19181.3	21522.4	21326.7	19294.3	15590.8	9362.6	3364.4	1176.6
75°	9631.0	9752.1	13356.7	15911.7	17310.4	16755.4	14676.6	10050.8	3850.8	944.5	403.6
77.5°	4972.9	4914.4	7943.8	10557.4	12345.5	11770.3	9610.8	5203.0	1459.2	393.6	250.3
80°	2571.2	2613.6	3437.0	5532.0	7536.1	6934.6	5124.3	2411.8	777.0	218.0	191.7
82.5°	1441.0	1352.2	1975.8	2415.8	3523.8	2763.0	1965.8	1707.4	339.1	131.2	181.6
85°	262.4	274.5	1083.8	1305.8	1223.0	777.0	633.7	1140.3	98.9	72.7	127.1
87.5°	4.0	4.0	209.9	375.4	238.2	109.0	199.8	163.5	20.2	28.3	22.2
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: P457102

CATALOG NUMBER: GALN-SA8B-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3	4686.3
2.5°	4664.1	4587.4	4444.1	4302.9	4123.2	3975.9	3877.0	3774.1	3669.1	3677.2	3701.4
5°	4583.4	4450.2	4167.6	3869.0	3582.4	3324.0	3069.7	2841.7	2748.8	2664.1	2668.1
7.5°	4502.7	4315.0	3901.2	3433.0	2999.1	2559.1	2240.2	1977.9	1838.6	1733.7	1703.4
10°	4466.3	4218.1	3657.0	3013.2	2397.7	1917.3	1507.6	1293.7	1128.2	1075.7	1089.8
12.5°	4482.5	4169.7	3437.0	2633.8	1901.2	1336.1	1049.5	940.5	904.2	898.1	894.1
15°	4512.8	4135.4	3221.1	2214.0	1396.6	993.0	882.0	861.8	857.7	853.7	855.7
17.5°	4553.1	4105.1	2991.0	1820.4	1071.7	867.8	835.5	825.5	823.4	823.4	823.4
20°	4593.5	4070.8	2734.7	1469.3	894.1	819.4	799.2	793.2	791.1	791.1	789.1
22.5°	4639.9	4040.5	2474.4	1154.4	823.4	785.1	766.9	762.9	760.9	758.9	758.9
25°	4706.5	4002.2	2197.9	944.5	779.0	752.8	734.6	730.6	728.6	720.5	722.5
27.5°	4795.3	3973.9	1913.3	815.4	738.7	712.4	700.3	694.3	690.2	684.2	686.2
30°	4916.4	3949.7	1610.5	744.7	692.3	670.1	657.9	653.9	649.9	643.8	643.8
32.5°	5126.3	3959.8	1291.7	688.2	649.9	623.6	611.5	607.5	603.5	597.4	597.4
35°	5441.2	4018.3	1033.3	639.8	599.4	573.2	561.1	561.1	555.0	546.9	544.9
37.5°	5955.8	4167.6	829.5	593.4	551.0	526.8	512.6	508.6	502.5	490.4	488.4
40°	6563.3	4399.7	698.3	546.9	506.6	482.4	470.2	458.1	442.0	429.9	427.9
42.5°	7326.2	4637.9	605.5	500.5	464.2	442.0	427.9	407.7	383.5	367.3	365.3
45°	8121.4	4855.9	542.9	458.1	423.8	405.7	389.5	357.2	327.0	306.8	304.8
47.5°	8714.7	4896.2	492.4	417.8	389.5	371.4	349.2	308.8	268.4	250.3	244.2
50°	8995.3	4700.5	440.0	377.4	355.2	335.0	306.8	260.4	216.0	193.8	189.7
52.5°	9094.2	4361.4	397.6	341.1	320.9	296.7	262.4	209.9	169.5	147.3	145.3
55°	9053.8	3933.5	359.2	306.8	280.5	252.3	218.0	167.5	125.1	107.0	102.9
57.5°	8841.9	3388.6	320.9	272.5	240.2	211.9	173.6	125.1	84.8	68.6	66.6
60°	8270.7	2645.9	282.6	234.1	203.8	173.6	137.2	88.8	52.5	38.3	38.3
62.5°	7306.0	1963.7	246.2	195.8	171.5	139.3	96.9	56.5	28.3	20.2	18.2
65°	6105.2	1449.1	205.9	165.5	143.3	109.0	68.6	34.3	14.1	6.1	4.0
67.5°	4260.5	894.1	171.5	135.2	117.1	78.7	42.4	14.1	6.1	0.0	0.0
70°	1935.5	425.8	131.2	102.9	88.8	56.5	22.2	8.1	4.0	0.0	0.0
72.5°	601.4	224.0	92.8	74.7	60.5	36.3	12.1	6.1	4.0	0.0	0.0
75°	278.5	143.3	58.5	40.4	34.3	18.2	8.1	4.0	2.0	0.0	0.0
77.5°	207.9	111.0	34.3	22.2	18.2	12.1	6.1	4.0	2.0	0.0	0.0
80°	181.6	56.5	20.2	14.1	10.1	8.1	4.0	2.0	0.0	0.0	0.0
82.5°	163.5	28.3	12.1	8.1	6.1	4.0	2.0	2.0	0.0	0.0	0.0
85°	88.8	16.1	8.1	6.1	4.0	2.0	2.0	0.0	0.0	0.0	0.0
87.5°	16.1	8.1	6.1	4.0	4.0	2.0	2.0	2.0	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)