

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: P456390

Luminaire Tested: **GALN-SA7C-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28184 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

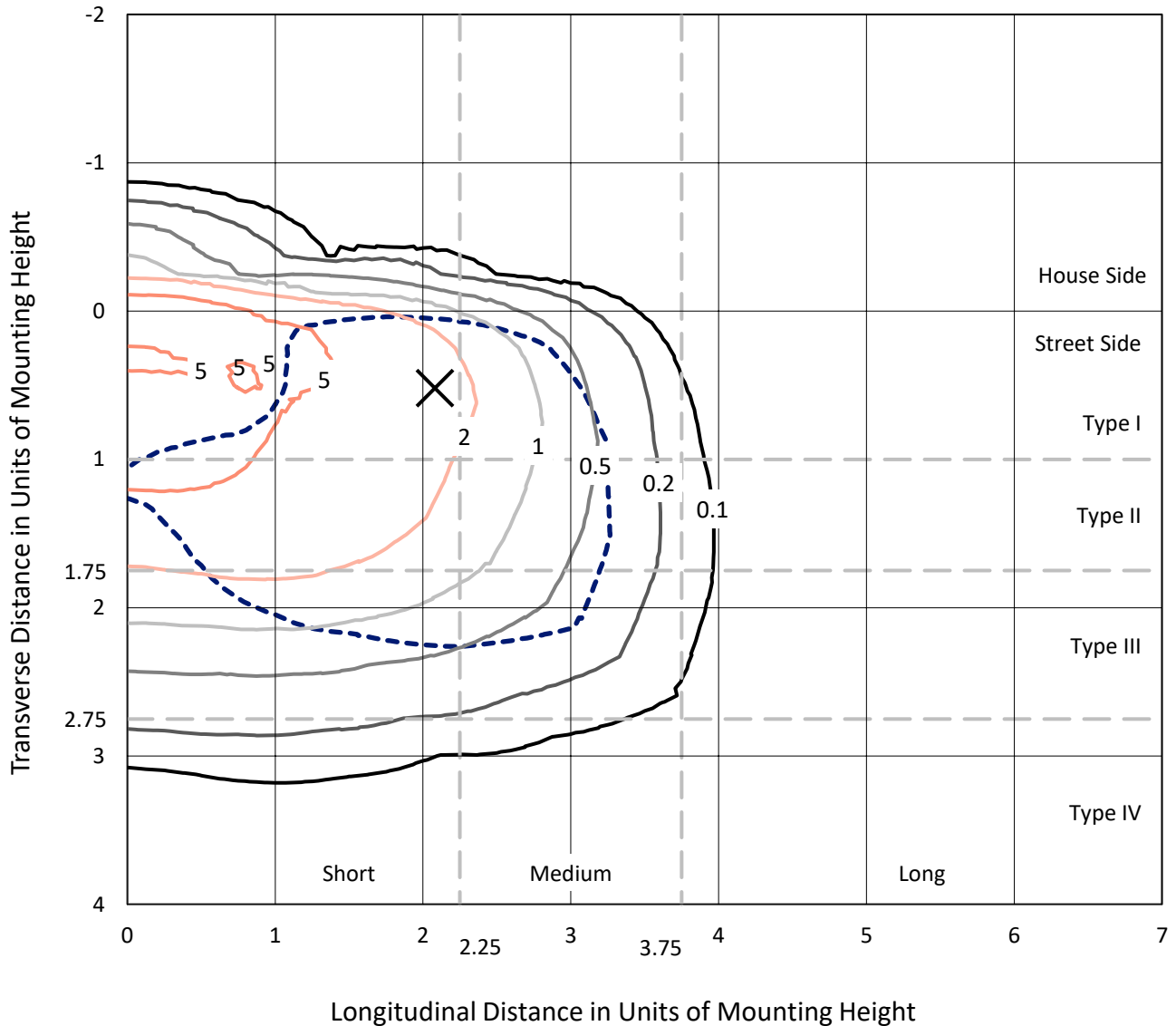
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

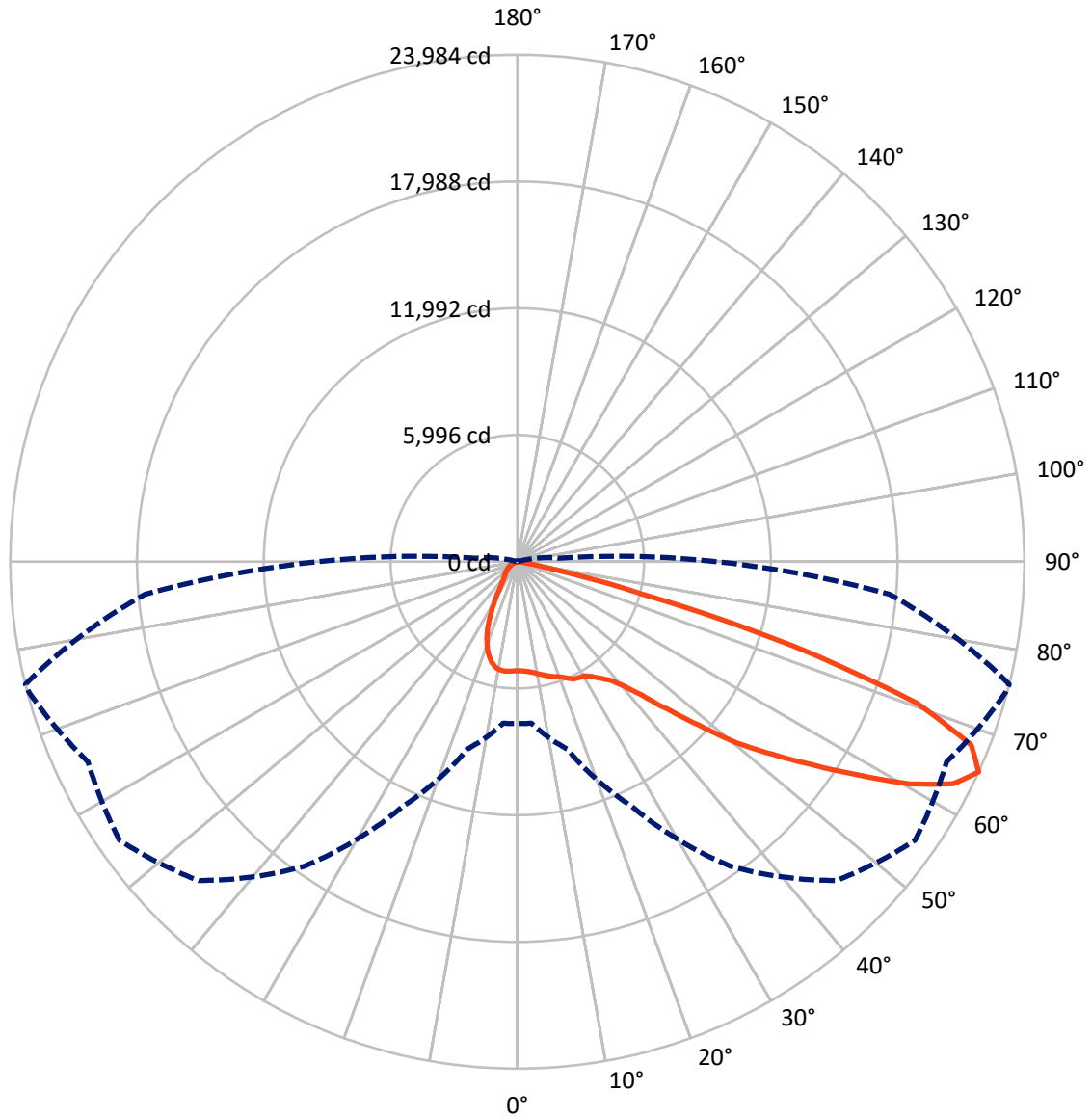
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2035.4	0.0	2035.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	26148.6	0.0	26148.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	28184.0	0.0	28184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.7	1.5
10°-20°	945.7	3.4
20°-30°	1523.8	5.4
30°-40°	2649.6	9.4
40°-50°	4378.3	15.5
50°-60°	6763.5	24.0
60°-70°	8259.2	29.3
70°-80°	3134.6	11.1
80°-90°	104.6	0.4
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°	28184.0	100.0
0°-180°	28184.0	100.0

Coefficient of Utilization



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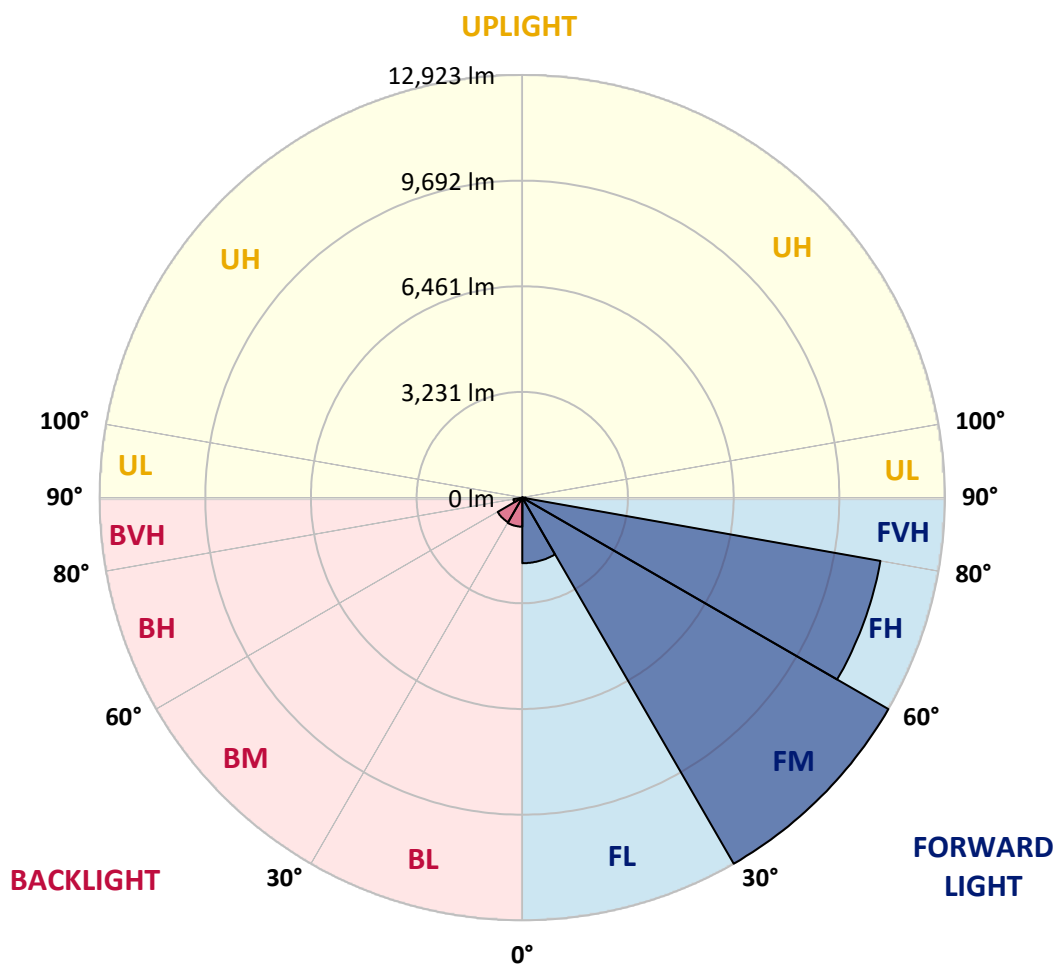
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2005.0	7.1			
FM (30°-60°)	12922.8	45.9			
FH (60°-80°)	11117.6	39.4			G4/12000
FVH (80°-90°)	103.2	0.4			G2/225
BL (0°-30°)	889.2	3.2	B2/1000		
BM (30°-60°)	868.6	3.1	B1/1000		
BH (60°-80°)	276.2	1.0	B1/500		G1/500
BVH (80°-90°)	1.4	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5155.8	5155.8	5155.8	5155.8	5155.8	5155.8	5155.8	5155.8	5155.8	5155.8	5155.8
2.5°	4926.9	4928.9	4940.8	4970.7	5016.5	5054.3	5086.1	5137.8	5173.7	5177.6	5189.6
5°	4586.7	4562.8	4586.7	4664.3	4733.9	4839.4	4968.7	5098.0	5213.5	5221.4	5277.1
7.5°	4204.6	4224.5	4262.3	4341.9	4473.2	4634.4	4821.5	5052.3	5271.2	5291.1	5400.5
10°	3816.6	3860.3	3922.0	4043.4	4226.5	4435.4	4690.1	5020.4	5362.7	5390.6	5579.6
12.5°	3458.4	3478.3	3553.9	3717.1	3943.9	4238.4	4590.6	5002.5	5464.2	5498.0	5770.6
15°	3183.8	3209.7	3275.3	3422.6	3675.3	4053.4	4509.0	4996.6	5563.7	5611.4	5961.7
17.5°	3132.1	3148.0	3175.8	3275.3	3496.2	3906.1	4435.4	4994.6	5659.2	5716.9	6138.7
20°	3345.0	3331.0	3303.2	3293.2	3414.6	3792.7	4381.7	5010.5	5750.7	5816.4	6325.8
22.5°	3878.3	3896.2	3733.0	3540.0	3500.2	3774.8	4373.7	5086.1	5896.0	5973.6	6534.7
25°	5010.5	4873.2	4618.5	4156.8	3808.6	3884.2	4463.3	5265.2	6065.1	6150.7	6723.8
27.5°	6262.1	6220.3	5824.3	5064.2	4415.5	4115.1	4622.5	5402.5	6120.8	6208.4	6831.2
30°	7491.9	7541.6	7087.9	6248.2	5297.0	4542.9	4771.7	5454.2	6170.6	6262.1	6968.5
32.5°	8632.1	8691.8	8293.8	7462.0	6335.7	5283.1	5028.4	5655.2	6379.5	6473.0	7197.4
35°	9529.5	9537.4	9237.0	8574.3	7470.0	6182.5	5583.6	6007.4	6662.1	6771.5	7440.1
37.5°	10353.3	10341.4	9989.1	9418.1	8415.2	7076.0	6282.0	6413.4	6984.4	7097.9	7790.3
40°	10964.2	10972.1	10858.7	10321.5	9296.7	7901.8	6835.2	6793.4	7525.7	7702.8	8299.7
42.5°	11372.1	11445.7	11501.4	11228.8	10405.0	8918.6	7684.9	7607.3	8464.9	8612.2	9020.1
45°	11702.4	11833.8	12112.3	12098.4	11469.6	10166.2	8850.9	8691.8	9796.1	9953.3	9937.4
47.5°	11943.2	12076.5	12538.2	12816.8	12470.5	11376.1	10317.5	10180.2	11386.0	11557.2	10950.3
50°	12066.6	12225.8	12814.8	13354.0	13252.5	12542.2	11989.0	11996.9	13306.3	13471.4	12124.3
52.5°	11778.0	11985.0	12962.0	13933.1	14130.1	13658.5	13555.0	13817.7	15015.6	15156.8	13184.9
55°	10856.7	11117.4	12761.0	14426.6	15146.9	14975.8	15333.9	15733.9	16884.0	16975.6	14273.3
57.5°	10273.7	10550.3	12168.1	14846.4	16368.7	16631.3	17198.4	17491.0	18812.2	19045.0	15523.0
60°	9782.2	9999.1	11680.5	14936.0	17610.3	18657.0	19208.2	19510.7	21192.1	21343.3	16898.0
62.5°	8964.4	9213.1	10856.7	14311.1	18235.2	20278.8	21421.0	21285.6	23032.7	23138.2	17741.7
65°	7649.1	7670.9	9185.2	12741.1	17590.5	21331.4	22975.0	22407.9	23912.3	23983.9	17676.0
67.5°	5708.9	5919.9	7066.0	10015.0	14858.4	20432.0	23478.5	22437.8	23357.1	23158.1	16273.2
70°	3677.3	3838.5	4789.6	6944.6	10713.5	17051.2	21809.0	20899.6	20499.6	20057.9	13320.2
72.5°	1697.4	1904.3	2845.5	3967.8	6353.7	12146.2	17703.9	16979.6	14754.9	13664.4	8466.9
75°	740.2	792.0	1404.8	2093.3	2978.8	6423.3	11672.6	10540.3	6664.1	6087.0	3388.7
77.5°	451.7	485.5	736.3	1122.3	1170.0	2447.5	6288.0	4598.6	2059.5	1816.8	919.3
80°	306.4	344.2	535.3	587.0	400.0	682.5	2360.0	1227.7	415.9	398.0	197.0
82.5°	149.2	189.0	396.0	328.3	173.1	218.9	686.5	262.7	121.4	113.4	69.6
85°	21.9	37.8	222.9	214.9	77.6	51.7	121.4	65.7	41.8	39.8	31.8
87.5°	0.0	0.0	75.6	33.8	8.0	8.0	13.9	13.9	15.9	13.9	15.9
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°	5155.8	5155.8	5155.8	5155.8	5155.8	5155.8	5155.8	5155.8	5155.8	5155.8	5155.8
2.5°	5195.6	5205.5	5167.7	5114.0	5056.3	4998.6	4917.0	4843.3	4799.6	4825.4	4761.8
5°	5289.1	5281.1	5181.6	5018.5	4801.6	4540.9	4282.2	4061.3	3989.7	3882.2	3870.3
7.5°	5418.4	5396.5	5185.6	4811.5	4322.0	3832.5	3354.9	3038.5	2857.5	2704.2	2708.2
10°	5599.5	5535.8	5139.8	4447.4	3641.5	2903.2	2294.3	1876.4	1695.4	1637.7	1591.9
12.5°	5786.5	5663.2	5012.5	3955.9	2835.6	1983.9	1394.9	1140.2	1028.8	992.9	989.0
15°	5953.7	5758.7	4789.6	3364.9	2061.5	1267.5	951.2	867.6	853.7	855.6	853.7
17.5°	6118.9	5834.3	4481.2	2738.1	1400.9	909.4	817.8	797.9	803.9	811.9	809.9
20°	6256.2	5850.2	4087.2	2089.4	991.0	797.9	768.1	764.1	770.1	776.0	776.0
22.5°	6405.4	5862.2	3619.6	1446.6	809.9	742.2	726.3	726.3	734.3	742.2	744.2
25°	6516.8	5796.5	3060.4	1038.7	714.4	688.5	680.5	682.5	690.5	694.5	692.5
27.5°	6534.7	5611.4	2467.4	795.9	648.7	622.8	614.9	622.8	612.9	618.8	614.9
30°	6550.7	5376.6	1866.5	670.6	589.0	549.2	537.3	525.3	517.4	507.4	505.4
32.5°	6600.4	5100.0	1363.1	602.9	533.3	489.5	461.6	427.8	402.0	394.0	392.0
35°	6622.3	4767.7	1000.9	549.2	483.5	435.8	386.0	338.3	300.5	286.5	296.5
37.5°	6705.9	4445.4	776.0	509.4	439.8	380.1	316.4	256.7	220.9	212.9	216.9
40°	6877.0	4095.2	650.7	475.6	402.0	328.3	250.7	193.0	169.1	161.2	159.2
42.5°	7151.6	3746.9	579.1	443.7	364.1	276.6	197.0	151.2	131.3	125.4	125.4
45°	7485.9	3412.6	529.3	409.9	324.3	222.9	155.2	121.4	109.4	105.5	105.5
47.5°	7925.7	3120.1	487.5	376.1	280.6	177.1	125.4	105.5	97.5	99.5	101.5
50°	8371.4	2903.2	441.8	338.3	230.8	145.3	107.5	93.5	91.5	93.5	93.5
52.5°	8707.7	2775.9	380.1	286.5	181.1	121.4	95.5	87.6	85.6	81.6	81.6
55°	9161.4	2748.0	302.5	232.8	143.3	101.5	85.6	79.6	73.6	69.6	67.7
57.5°	9744.4	2779.8	232.8	181.1	111.4	83.6	75.6	65.7	57.7	49.7	49.7
60°	10106.5	2708.2	181.1	139.3	81.6	67.7	57.7	47.8	37.8	31.8	29.8
62.5°	9991.1	2405.8	143.3	103.5	57.7	49.7	37.8	31.8	21.9	15.9	13.9
65°	9396.2	1942.1	115.4	71.6	41.8	29.8	19.9	19.9	9.9	2.0	0.0
67.5°	8224.1	1438.7	91.5	47.8	23.9	13.9	9.9	6.0	0.0	0.0	0.0
70°	6693.9	1038.7	71.6	29.8	13.9	9.9	4.0	2.0	0.0	0.0	0.0
72.5°	4250.4	595.0	55.7	17.9	9.9	4.0	0.0	0.0	0.0	0.0	0.0
75°	1643.6	232.8	37.8	11.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	465.6	109.4	21.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	121.4	47.8	11.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	57.7	19.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.8	8.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	2.0	0.0	0.0	0.0	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)