

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: P529715

Luminaire Tested: **GALN-SA4D-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13156 lumens
Efficiency: N/A
Efficacy: 53.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

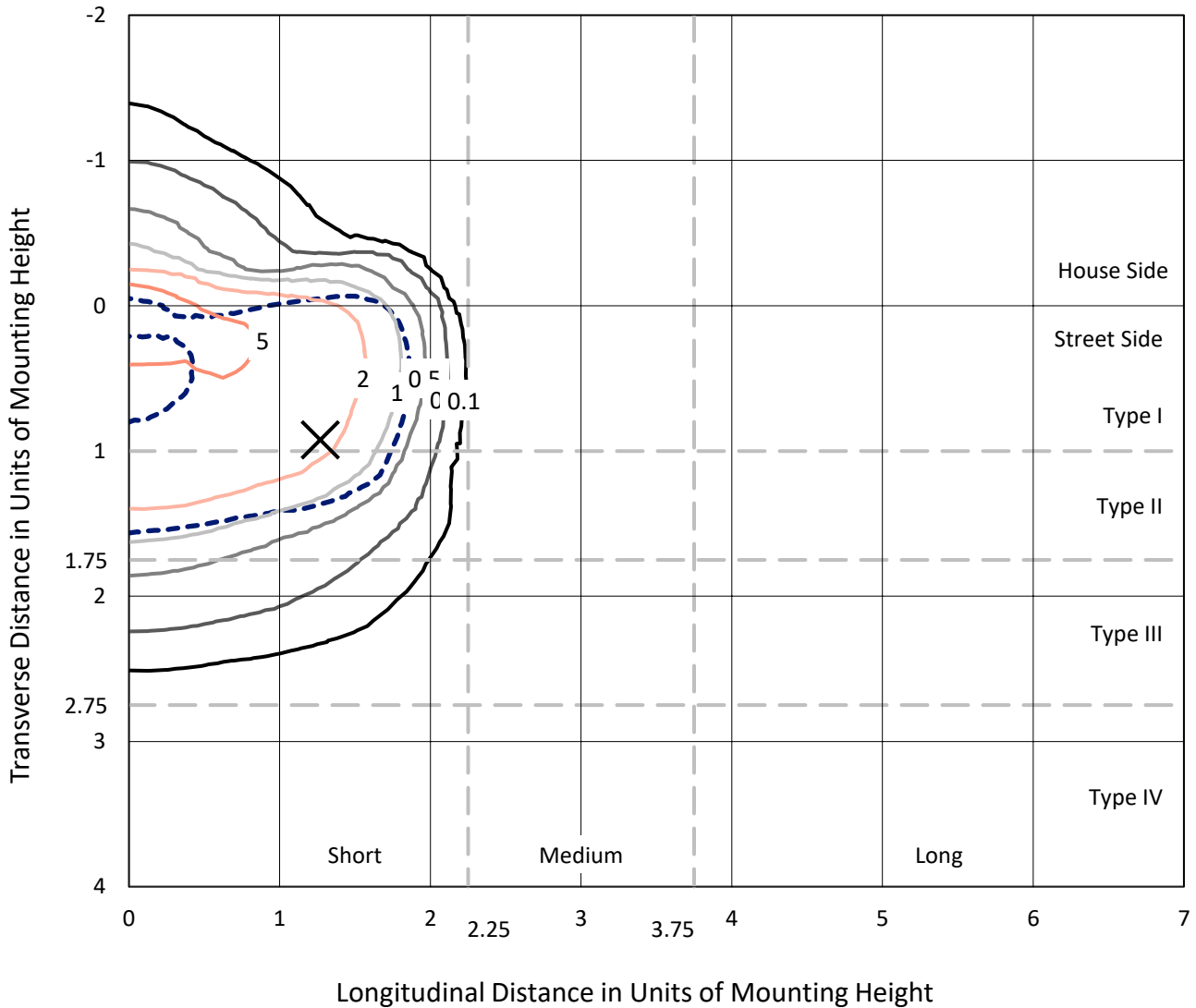
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

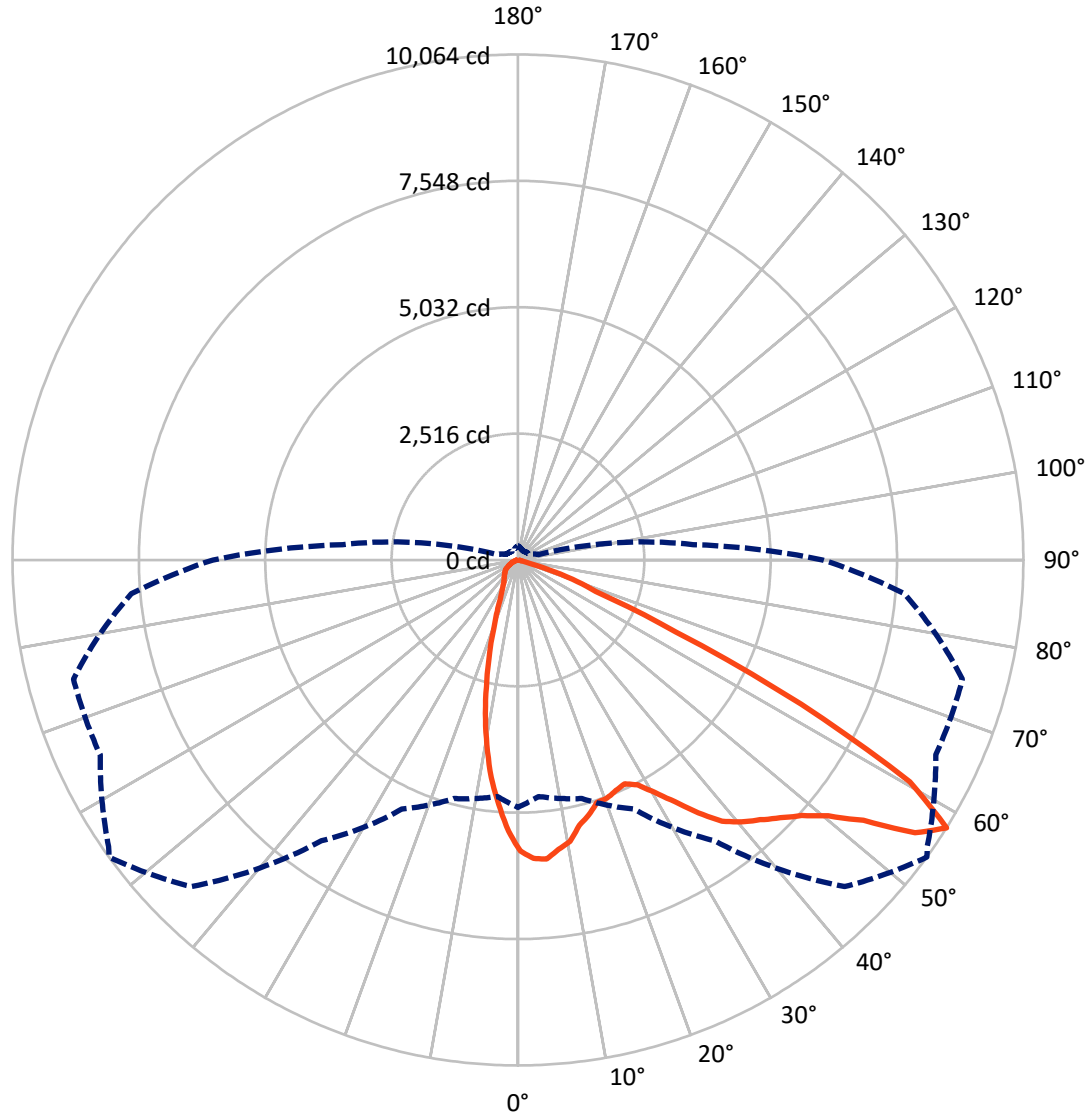
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1859.2	0.0	1859.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11296.8	0.0	11296.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	13156.0	0.0	13156.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.0	3.7
10°-20°	1035.4	7.9
20°-30°	1372.1	10.4
30°-40°	1994.1	15.2
40°-50°	2956.9	22.5
50°-60°	3697.5	28.1
60°-70°	1458.5	11.1
70°-80°	145.2	1.1
80°-90°	11.3	0.1
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°	13156.0	100.0
0°-180°	13156.0	100.0

Coefficient of Utilization



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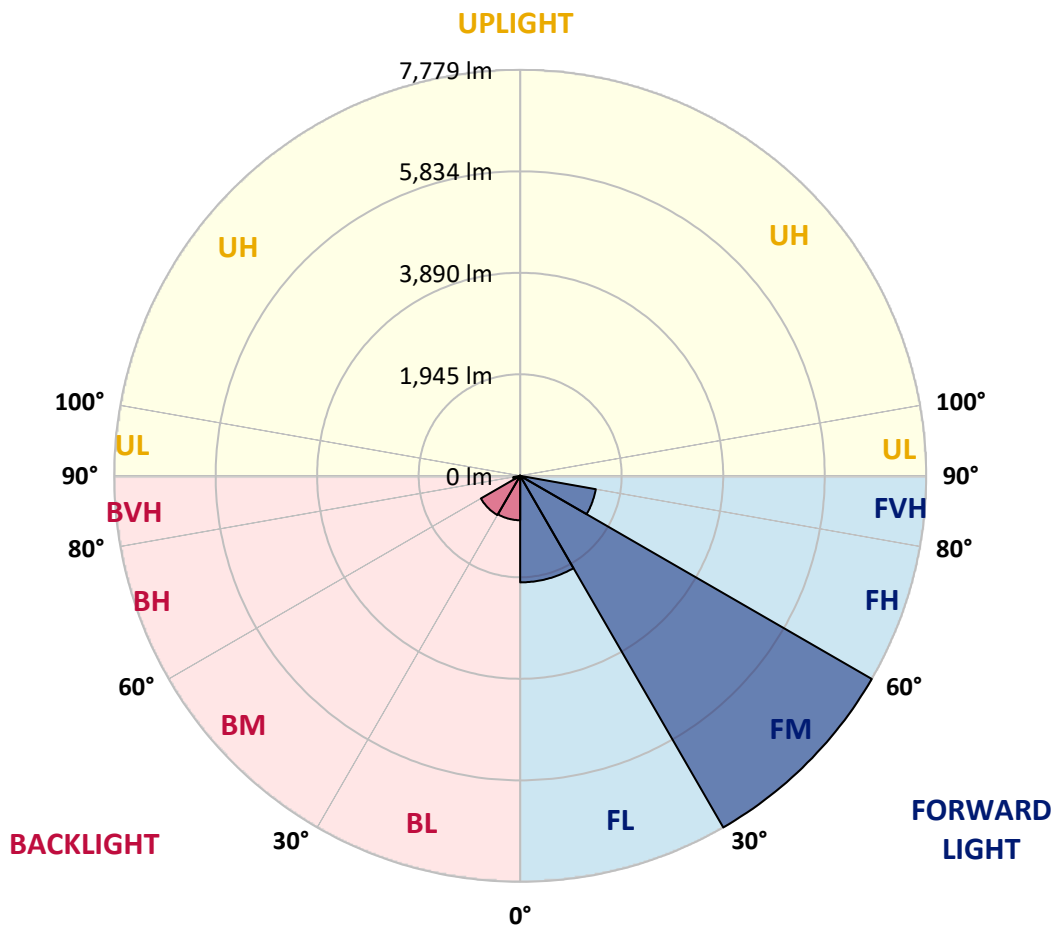
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2042.2	15.5			
FM (30°-60°)	7779.1	59.1			
FH (60°-80°)	1470.4	11.2			G1/1800
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	850.3	6.5	B2/1000		
BM (30°-60°)	869.4	6.6	B1/1000		
BH (60°-80°)	133.3	1.0	B1/500		G1/500
BVH (80°-90°)	6.2	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5795.4	5795.4	5795.4	5795.4	5795.4	5795.4	5795.4	5795.4	5795.4	5795.4	5795.4
2.5°	6133.0	6069.4	6074.3	6052.3	6022.9	6044.9	5949.5	5971.5	5969.1	5839.4	5753.8
5°	5978.9	6047.4	5976.4	6035.1	5978.9	6040.0	5981.3	5937.3	5866.3	5770.9	5611.9
7.5°	5717.1	5651.1	5670.6	5744.0	5756.3	5893.2	5819.9	5876.1	5846.8	5658.4	5440.7
10°	5191.1	5176.5	5274.3	5372.2	5492.0	5638.8	5695.1	5663.3	5641.3	5570.3	5279.2
12.5°	4787.5	4829.1	4826.6	4988.1	5191.1	5274.3	5421.1	5416.2	5538.5	5406.4	5127.5
15°	4403.4	4425.4	4528.2	4628.5	4853.6	5090.8	5271.9	5296.3	5443.1	5350.2	5010.1
17.5°	4168.6	4136.8	4217.5	4337.4	4567.3	4878.0	5078.6	5137.3	5337.9	5318.4	4875.6
20°	3936.2	3936.2	4002.2	4144.1	4354.5	4704.3	5061.5	5044.4	5337.9	5281.7	4731.2
22.5°	3857.9	3897.0	3914.2	4021.8	4271.3	4572.2	4988.1	5019.9	5379.5	5264.5	4667.6
25°	3965.5	3914.2	3919.0	4004.7	4239.5	4508.6	4934.3	5005.2	5455.4	5350.2	4616.3
27.5°	3982.7	4034.0	4048.7	4107.4	4264.0	4528.2	5068.8	5213.2	5643.7	5550.8	4630.9
30°	4131.9	4183.3	4180.8	4281.1	4388.7	4687.2	5369.7	5399.1	6032.7	5802.7	4721.4
32.5°	4312.9	4366.7	4383.9	4501.3	4586.9	4978.3	5736.7	5812.5	6407.0	6199.0	4958.7
35°	4538.0	4518.4	4596.7	4714.1	4897.6	5404.0	6184.4	6311.6	6810.6	6712.8	5203.4
37.5°	4819.3	4794.8	4870.7	5061.5	5311.0	5907.9	6597.8	6681.0	7104.2	7189.8	5656.0
40°	5017.5	5027.2	5257.2	5514.1	5778.3	6387.4	6859.6	6940.3	7309.7	7635.0	5998.4
42.5°	5347.7	5408.9	5685.3	5998.4	6274.9	6747.0	7072.4	7150.7	7405.1	7992.2	6460.8
45°	5827.2	5800.3	6106.1	6455.9	6761.7	7121.3	7324.4	7297.5	7461.4	8346.9	6751.9
47.5°	6443.7	6448.6	6651.6	6950.1	7268.1	7446.7	7605.7	7510.3	7578.8	8721.2	7140.9
50°	6864.4	6901.1	7065.0	7370.8	7529.9	7803.8	8006.9	7948.2	7926.2	8946.3	7385.5
52.5°	6972.1	7082.2	7170.2	7551.9	7923.7	8356.7	8616.0	8740.8	8349.4	9022.1	7696.2
55°	6159.9	6257.8	6568.4	7092.0	8072.9	9232.5	9589.7	9592.1	8902.3	9359.7	7913.9
57.5°	4924.5	4726.3	4917.2	5472.5	6825.3	9195.8	10064.3	9949.3	9178.7	9161.6	7725.6
60°	3405.3	3356.4	3368.6	3588.8	4723.9	7314.6	8968.3	9117.5	8452.1	7940.8	6115.9
62.5°	2698.3	2656.7	2602.9	2578.4	2933.2	4557.5	6326.3	6536.6	5910.4	5149.6	3625.5
65°	2113.6	2089.2	2096.5	2194.4	2191.9	2585.8	3459.1	3373.5	2700.8	1996.2	1140.0
67.5°	1426.2	1462.9	1492.3	1788.3	1940.0	1800.5	1670.9	1621.9	878.2	369.4	252.0
70°	802.4	807.3	839.1	1118.0	1472.7	1396.9	1152.2	1152.2	437.9	134.5	144.3
72.5°	437.9	423.2	393.9	481.9	655.6	665.4	513.7	447.7	129.7	88.1	80.7
75°	212.8	210.4	181.0	149.2	141.9	117.4	90.5	83.2	58.7	56.3	48.9
77.5°	44.0	41.6	22.0	22.0	24.5	26.9	34.2	34.2	41.6	41.6	34.2
80°	0.0	0.0	2.4	9.8	17.1	24.5	29.4	29.4	34.2	34.2	26.9
82.5°	0.0	0.0	2.4	7.3	14.7	22.0	26.9	29.4	34.2	36.7	29.4
85°	0.0	0.0	0.0	4.9	12.2	17.1	14.7	14.7	12.2	9.8	4.9
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5795.4	5795.4	5795.4	5795.4	5795.4	5795.4	5795.4	5795.4	5795.4	5795.4	5795.4
2.5°	5709.8	5704.9	5592.3	5528.7	5413.8	5313.5	5232.7	5174.0	5174.0	5137.3	5103.1
5°	5548.3	5506.7	5267.0	5112.9	4895.1	4733.7	4623.6	4538.0	4403.4	4440.1	4295.8
7.5°	5347.7	5242.5	4924.5	4689.6	4388.7	4158.8	3923.9	3716.0	3515.4	3424.9	3473.8
10°	5132.4	4949.0	4520.8	4149.0	3774.7	3353.9	3080.0	2747.2	2541.8	2529.5	2475.7
12.5°	4904.9	4697.0	4175.9	3662.2	3170.5	2664.1	2245.7	1935.1	1795.6	1641.5	1670.9
15°	4733.7	4425.4	3791.8	3172.9	2519.7	2008.5	1587.7	1347.9	1215.8	1179.1	1166.9
17.5°	4547.8	4217.5	3400.4	2651.8	1976.6	1445.8	1142.4	1027.5	976.1	976.1	968.8
20°	4354.5	3982.7	3011.5	2167.5	1482.5	1078.8	914.9	878.2	875.8	873.3	873.3
22.5°	4227.3	3713.6	2659.2	1722.2	1118.0	863.6	795.1	780.4	790.2	819.5	819.5
25°	4092.7	3454.2	2270.2	1328.4	866.0	741.2	702.1	711.9	736.4	763.3	753.5
27.5°	3955.7	3285.4	1903.3	1042.1	709.4	648.3	633.6	655.6	682.5	707.0	699.7
30°	3923.9	3104.4	1555.9	790.2	609.1	565.1	574.9	594.5	621.4	631.2	640.9
32.5°	3972.9	2962.5	1274.5	648.3	530.9	518.6	518.6	528.4	545.5	567.6	560.2
35°	4112.3	2881.8	1007.9	562.7	486.8	474.6	472.1	481.9	491.7	499.1	491.7
37.5°	4325.1	2818.2	824.4	499.1	457.5	437.9	433.0	430.6	440.3	442.8	447.7
40°	4596.7	2852.4	699.7	459.9	428.1	406.1	391.4	391.4	391.4	398.8	401.2
42.5°	4890.2	2898.9	604.2	437.9	401.2	374.3	359.6	354.7	359.6	369.4	367.0
45°	5198.5	2989.4	543.1	403.6	376.7	342.5	322.9	318.0	330.3	349.8	347.4
47.5°	5487.2	3119.1	496.6	381.6	352.3	320.5	296.0	291.1	313.1	340.0	342.5
50°	5775.8	3344.2	479.5	364.5	335.1	298.5	276.4	271.5	296.0	330.3	337.6
52.5°	6108.5	3586.3	467.3	342.5	315.6	281.3	256.9	252.0	278.9	322.9	325.4
55°	6326.3	3791.8	457.5	303.3	278.9	254.4	234.8	232.4	261.8	300.9	310.7
57.5°	6071.8	3505.6	423.2	264.2	237.3	225.1	207.9	207.9	232.4	269.1	276.4
60°	4604.0	2306.9	300.9	212.8	200.6	193.3	185.9	185.9	205.5	232.4	234.8
62.5°	2695.9	1242.7	193.3	171.2	171.2	163.9	151.7	151.7	171.2	185.9	188.4
65°	800.0	398.8	156.6	146.8	144.3	132.1	119.9	117.4	132.1	139.4	137.0
67.5°	230.0	183.5	129.7	122.3	119.9	100.3	93.0	90.5	93.0	88.1	85.6
70°	137.0	124.8	100.3	102.7	90.5	73.4	66.1	63.6	58.7	51.4	46.5
72.5°	75.8	75.8	73.4	78.3	63.6	48.9	41.6	34.2	26.9	22.0	19.6
75°	46.5	48.9	51.4	53.8	41.6	31.8	26.9	17.1	9.8	4.9	4.9
77.5°	31.8	34.2	36.7	39.1	34.2	29.4	22.0	12.2	2.4	0.0	0.0
80°	24.5	26.9	31.8	34.2	36.7	39.1	29.4	12.2	2.4	0.0	0.0
82.5°	26.9	29.4	36.7	34.2	34.2	34.2	26.9	12.2	2.4	0.0	0.0
85°	4.9	7.3	12.2	12.2	17.1	22.0	17.1	4.9	0.0	0.0	0.0
87.5°	0.0	0.0	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)