

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: P528389

Luminaire Tested: **GALN-SA3C-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528389
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-SA3C-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA 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: 10265 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

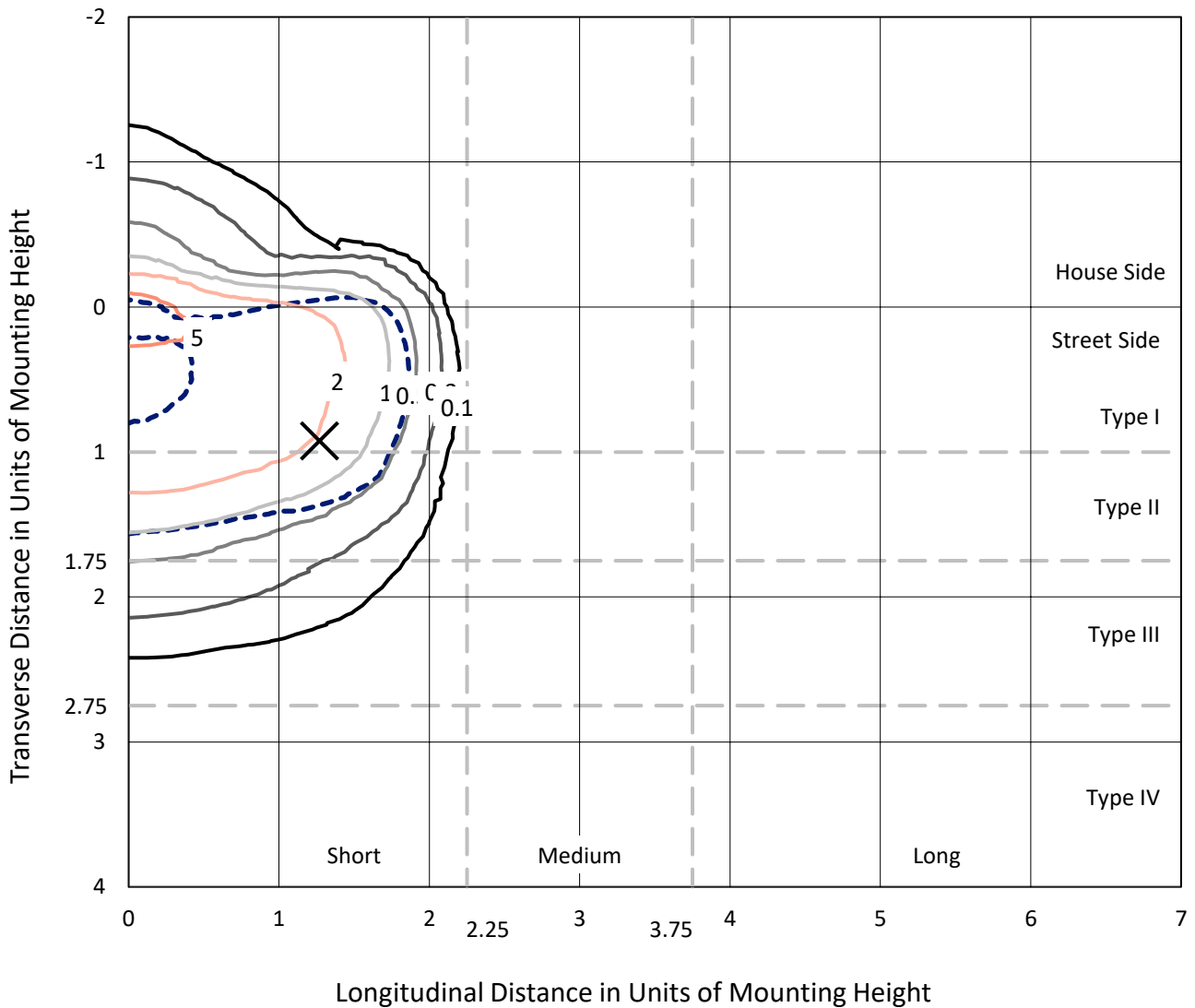
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

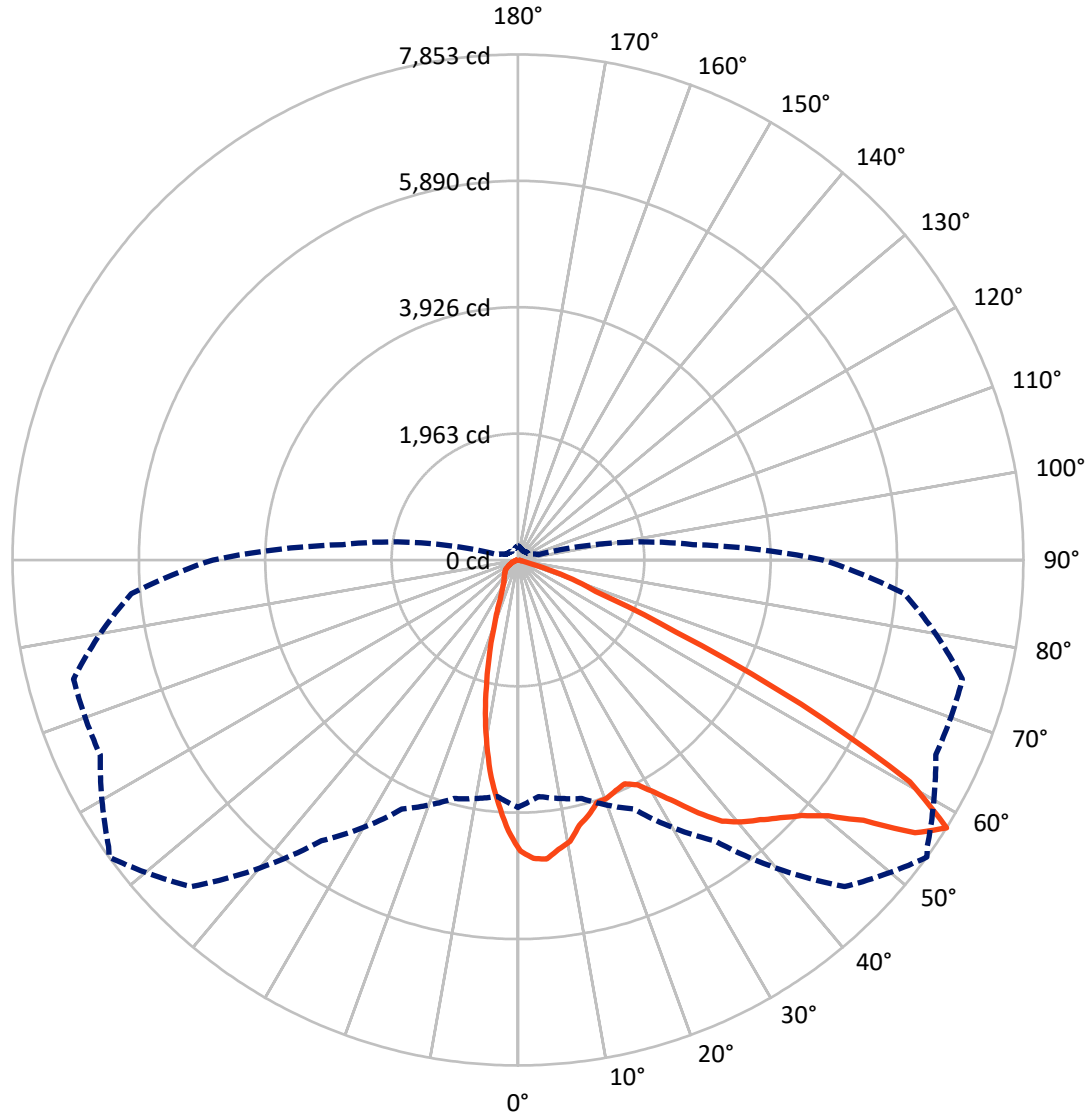
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	1450.6	0.0	1450.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	8814.4	0.0	8814.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	10265.0	0.0	10265.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.4	3.7
10°-20°	807.9	7.9
20°-30°	1070.6	10.4
30°-40°	1555.9	15.2
40°-50°	2307.2	22.5
50°-60°	2885.0	28.1
60°-70°	1138.0	11.1
70°-80°	113.3	1.1
80°-90°	8.8	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°	10265.0	100.0
0°-180°	10265.0	100.0

Coefficient of Utilization

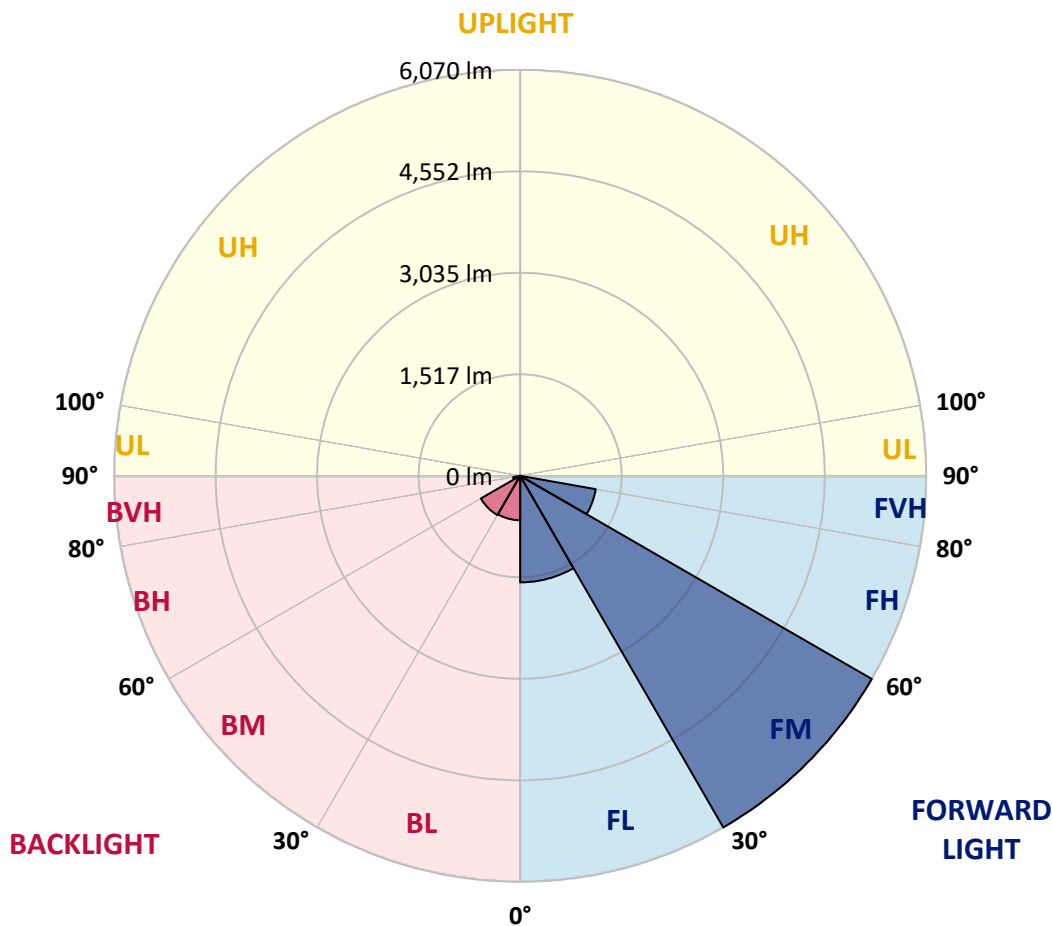


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1593.4	15.5			
FM (30°-60°)	6069.7	59.1			
FH (60°-80°)	1147.3	11.2			G1/1800
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	663.4	6.5	B2/1000		
BM (30°-60°)	678.3	6.6	B1/1000		
BH (60°-80°)	104.0	1.0	B0/110		G0/110
BVH (80°-90°)	4.8	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°	4521.9	4521.9	4521.9	4521.9	4521.9	4521.9	4521.9	4521.9	4521.9	4521.9	4521.9
2.5°	4785.3	4735.7	4739.5	4722.3	4699.4	4716.6	4642.1	4659.3	4657.4	4556.2	4489.4
5°	4665.0	4718.5	4663.1	4708.9	4665.0	4712.7	4666.9	4632.6	4577.2	4502.8	4378.7
7.5°	4460.8	4409.3	4424.5	4481.8	4491.3	4598.2	4541.0	4584.9	4562.0	4415.0	4245.1
10°	4050.4	4039.0	4115.3	4191.7	4285.2	4399.7	4443.6	4418.8	4401.6	4346.3	4119.1
12.5°	3735.5	3767.9	3766.0	3892.0	4050.4	4115.3	4229.8	4226.0	4321.5	4218.4	4000.8
15°	3435.8	3453.0	3533.1	3611.4	3787.0	3972.1	4113.4	4132.5	4247.0	4174.5	3909.2
17.5°	3252.5	3227.7	3290.7	3384.2	3563.7	3806.1	3962.6	4008.4	4164.9	4149.7	3804.2
20°	3071.2	3071.2	3122.7	3233.5	3397.6	3670.6	3949.2	3935.9	4164.9	4121.0	3691.6
22.5°	3010.1	3040.7	3054.0	3138.0	3332.7	3567.5	3892.0	3916.8	4197.4	4107.7	3641.9
25°	3094.1	3054.0	3057.8	3124.7	3307.9	3517.9	3850.0	3905.3	4256.6	4174.5	3601.8
27.5°	3107.5	3147.6	3159.0	3204.8	3327.0	3533.1	3955.0	4067.6	4403.5	4331.0	3613.3
30°	3223.9	3264.0	3262.1	3340.3	3424.3	3657.2	4189.7	4212.7	4707.0	4527.6	3683.9
32.5°	3365.2	3407.2	3420.5	3512.1	3578.9	3884.3	4476.1	4535.2	4999.1	4836.8	3869.1
35°	3540.8	3525.5	3586.6	3678.2	3821.4	4216.5	4825.4	4924.6	5314.0	5237.7	4059.9
37.5°	3760.3	3741.2	3800.4	3949.2	4143.9	4609.7	5147.9	5212.8	5543.1	5609.9	4413.1
40°	3914.9	3922.5	4101.9	4302.4	4508.5	4983.8	5352.2	5415.2	5703.4	5957.3	4680.3
42.5°	4172.6	4220.3	4436.0	4680.3	4896.0	5264.4	5518.2	5579.3	5777.8	6235.9	5041.1
45°	4546.7	4525.7	4764.3	5037.2	5275.8	5556.4	5714.9	5693.9	5821.7	6512.7	5268.2
47.5°	5027.7	5031.5	5189.9	5422.8	5670.9	5810.3	5934.4	5859.9	5913.4	6804.8	5571.7
50°	5356.0	5384.6	5512.5	5751.1	5875.2	6089.0	6247.4	6201.6	6184.4	6980.4	5762.6
52.5°	5440.0	5525.9	5594.6	5892.4	6182.5	6520.4	6722.7	6820.0	6514.6	7039.5	6005.0
55°	4806.3	4882.6	5125.0	5533.5	6298.9	7203.7	7482.4	7484.3	6946.0	7302.9	6174.9
57.5°	3842.3	3687.7	3836.6	4269.9	5325.5	7175.1	7852.7	7763.0	7161.7	7148.3	6027.9
60°	2657.0	2618.8	2628.4	2800.2	3685.8	5707.2	6997.5	7114.0	6594.8	6195.9	4771.9
62.5°	2105.4	2072.9	2030.9	2011.8	2288.6	3556.0	4936.1	5100.2	4611.6	4018.0	2828.8
65°	1649.2	1630.1	1635.8	1712.2	1710.3	2017.6	2699.0	2632.2	2107.3	1557.6	889.5
67.5°	1112.8	1141.4	1164.3	1395.3	1513.7	1404.9	1303.7	1265.5	685.2	288.2	196.6
70°	626.1	629.9	654.7	872.3	1149.1	1089.9	899.0	899.0	341.7	105.0	112.6
72.5°	341.7	330.2	307.3	376.0	511.5	519.2	400.8	349.3	101.2	68.7	63.0
75°	166.1	164.2	141.2	116.4	110.7	91.6	70.6	64.9	45.8	43.9	38.2
77.5°	34.4	32.4	17.2	17.2	19.1	21.0	26.7	26.7	32.4	32.4	26.7
80°	0.0	0.0	1.9	7.6	13.4	19.1	22.9	22.9	26.7	26.7	21.0
82.5°	0.0	0.0	1.9	5.7	11.5	17.2	21.0	22.9	26.7	28.6	22.9
85°	0.0	0.0	0.0	3.8	9.5	13.4	11.5	11.5	9.5	7.6	3.8
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°	4521.9	4521.9	4521.9	4521.9	4521.9	4521.9	4521.9	4521.9	4521.9	4521.9	4521.9
2.5°	4455.1	4451.2	4363.4	4313.8	4224.1	4145.8	4082.9	4037.0	4037.0	4008.4	3981.7
5°	4329.1	4296.6	4109.6	3989.3	3819.4	3693.5	3607.6	3540.8	3435.8	3464.4	3351.8
7.5°	4172.6	4090.5	3842.3	3659.1	3424.3	3244.9	3061.7	2899.4	2742.9	2672.3	2710.5
10°	4004.6	3861.4	3527.4	3237.3	2945.2	2616.9	2403.1	2143.5	1983.2	1973.7	1931.7
12.5°	3827.1	3664.8	3258.3	2857.4	2473.8	2078.6	1752.2	1509.8	1401.0	1280.8	1303.7
15°	3693.5	3453.0	2958.6	2475.7	1966.0	1567.1	1238.8	1051.7	948.7	920.0	910.5
17.5°	3548.4	3290.7	2653.2	2069.1	1542.3	1128.1	891.4	801.7	761.6	761.6	755.9
20°	3397.6	3107.5	2349.7	1691.2	1156.7	841.8	713.9	685.2	683.3	681.4	681.4
22.5°	3298.4	2897.5	2074.8	1343.8	872.3	673.8	620.3	608.9	616.5	639.4	639.4
25°	3193.4	2695.2	1771.3	1036.5	675.7	578.4	547.8	555.5	574.5	595.5	587.9
27.5°	3086.5	2563.5	1485.0	813.1	553.5	505.8	494.4	511.5	532.5	551.6	545.9
30°	3061.7	2422.2	1214.0	616.5	475.3	440.9	448.6	463.8	484.8	492.5	500.1
32.5°	3099.8	2311.5	994.5	505.8	414.2	404.7	404.7	412.3	425.7	442.8	437.1
35°	3208.6	2248.5	786.4	439.0	379.8	370.3	368.4	376.0	383.7	389.4	383.7
37.5°	3374.7	2198.9	643.3	389.4	356.9	341.7	337.9	335.9	343.6	345.5	349.3
40°	3586.6	2225.6	545.9	358.8	334.0	316.9	305.4	305.4	305.4	311.1	313.0
42.5°	3815.6	2261.9	471.5	341.7	313.0	292.0	280.6	276.8	280.6	288.2	286.3
45°	4056.1	2332.5	423.7	314.9	294.0	267.2	252.0	248.1	257.7	273.0	271.0
47.5°	4281.4	2433.7	387.5	297.8	274.9	250.0	231.0	227.1	244.3	265.3	267.2
50°	4506.6	2609.3	374.1	284.4	261.5	232.9	215.7	211.9	231.0	257.7	263.4
52.5°	4766.2	2798.3	364.6	267.2	246.2	219.5	200.4	196.6	217.6	252.0	253.9
55°	4936.1	2958.6	356.9	236.7	217.6	198.5	183.2	181.3	204.2	234.8	242.4
57.5°	4737.6	2735.3	330.2	206.1	185.2	175.6	162.2	162.2	181.3	210.0	215.7
60°	3592.3	1800.0	234.8	166.1	156.5	150.8	145.1	145.1	160.3	181.3	183.2
62.5°	2103.5	969.7	150.8	133.6	133.6	127.9	118.3	118.3	133.6	145.1	147.0
65°	624.2	311.1	122.2	114.5	112.6	103.1	93.5	91.6	103.1	108.8	106.9
67.5°	179.4	143.2	101.2	95.4	93.5	78.3	72.5	70.6	72.5	68.7	66.8
70°	106.9	97.3	78.3	80.2	70.6	57.3	51.5	49.6	45.8	40.1	36.3
72.5°	59.2	59.2	57.3	61.1	49.6	38.2	32.4	26.7	21.0	17.2	15.3
75°	36.3	38.2	40.1	42.0	32.4	24.8	21.0	13.4	7.6	3.8	3.8
77.5°	24.8	26.7	28.6	30.5	26.7	22.9	17.2	9.5	1.9	0.0	0.0
80°	19.1	21.0	24.8	26.7	28.6	30.5	22.9	9.5	1.9	0.0	0.0
82.5°	21.0	22.9	28.6	26.7	26.7	26.7	21.0	9.5	1.9	0.0	0.0
85°	3.8	5.7	9.5	9.5	13.4	17.2	13.4	3.8	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)