

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: P531197

Luminaire Tested: **GALN-SA6C-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531197
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-SA6C-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 20389 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

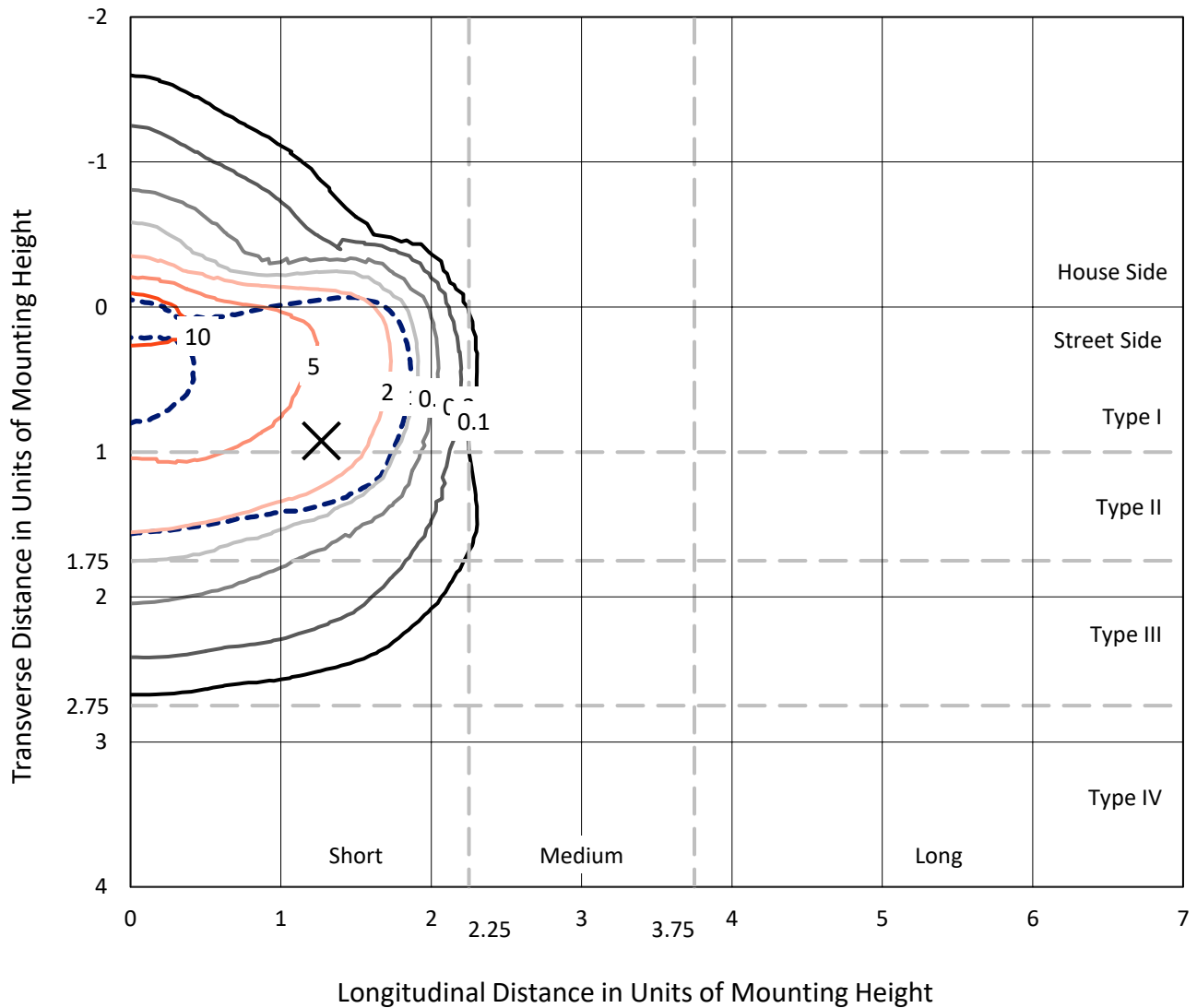
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

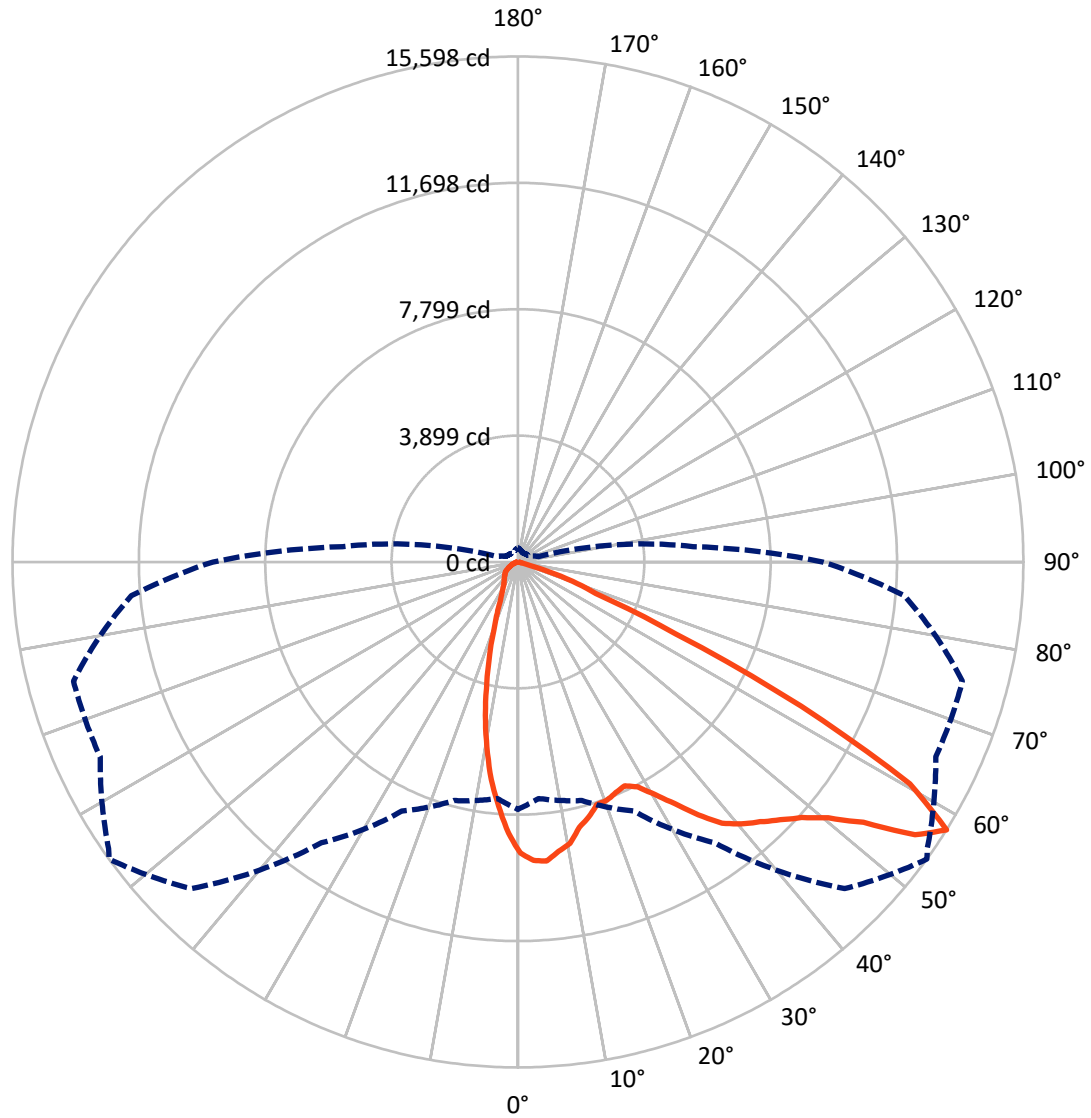
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	2881.3	0.0	2881.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	17507.7	0.0	17507.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	20389.0	0.0	20389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.6	3.7
10°-20°	1604.7	7.9
20°-30°	2126.5	10.4
30°-40°	3090.4	15.2
40°-50°	4582.6	22.5
50°-60°	5730.4	28.1
60°-70°	2260.4	11.1
70°-80°	225.1	1.1
80°-90°	17.5	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°	20389.0	100.0
0°-180°	20389.0	100.0

Coefficient of Utilization

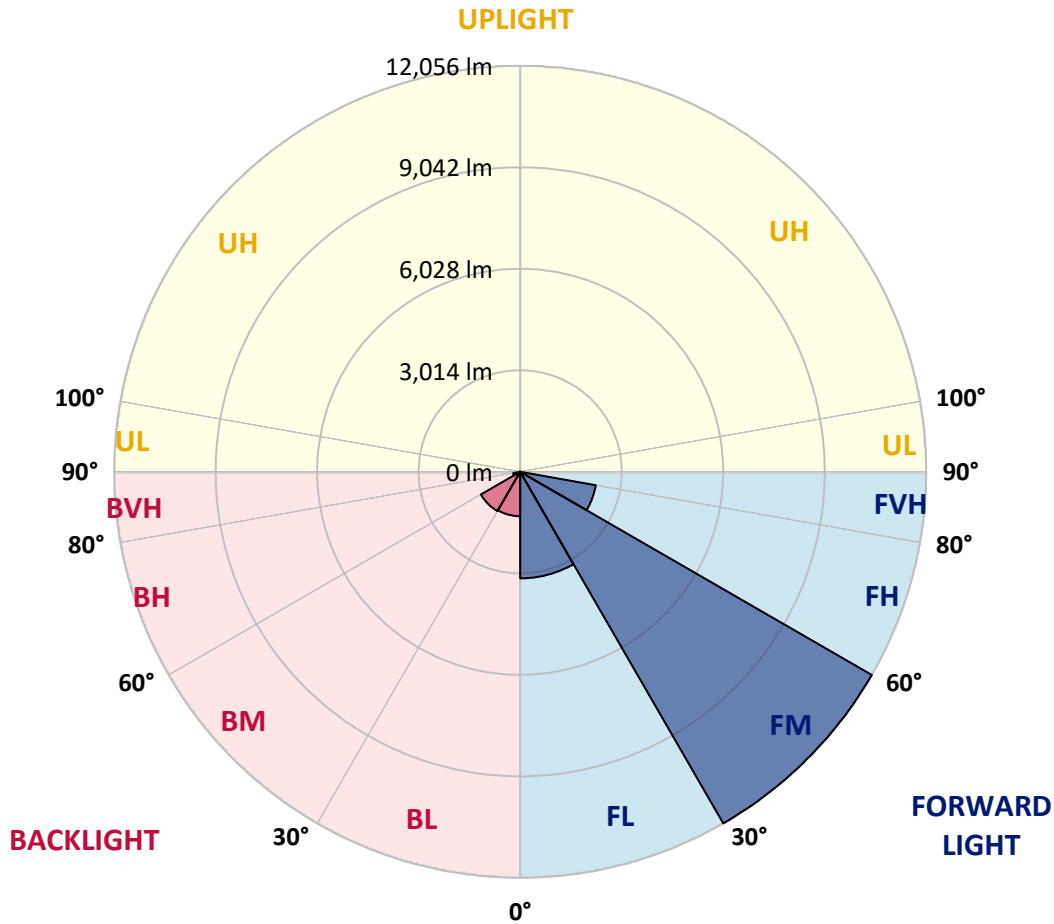


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3165.0	15.5			
FM (30°-60°)	12056.0	59.1			
FH (60°-80°)	2278.8	11.2			G2/5000
FVH (80°-90°)	7.9	0.0			G0/10
BL (0°-30°)	1317.8	6.5	B3/2500		
BM (30°-60°)	1347.4	6.6	B2/2500		
BH (60°-80°)	206.6	1.0	B1/500		G1/500
BVH (80°-90°)	9.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8981.6	8981.6	8981.6	8981.6	8981.6	8981.6	8981.6	8981.6	8981.6	8981.6	8981.6
2.5°	9504.8	9406.3	9413.8	9379.7	9334.2	9368.3	9220.5	9254.6	9250.8	9049.9	8917.2
5°	9266.0	9372.1	9262.2	9353.2	9266.0	9360.8	9269.8	9201.5	9091.6	8943.7	8697.3
7.5°	8860.3	8757.9	8788.3	8902.0	8921.0	9133.3	9019.5	9106.7	9061.2	8769.3	8431.9
10°	8045.2	8022.4	8174.1	8325.7	8511.5	8739.0	8826.2	8776.9	8742.8	8632.8	8181.7
12.5°	7419.6	7484.1	7480.3	7730.5	8045.2	8174.1	8401.6	8394.0	8583.5	8378.8	7946.6
15°	6824.4	6858.5	7017.7	7173.2	7522.0	7889.7	8170.3	8208.2	8435.7	8291.6	7764.6
17.5°	6460.4	6411.1	6536.2	6722.0	7078.4	7559.9	7870.8	7961.8	8272.7	8242.3	7556.1
20°	6100.2	6100.2	6202.6	6422.5	6748.5	7290.7	7844.2	7817.7	8272.7	8185.5	7332.4
22.5°	5978.9	6039.6	6066.1	6232.9	6619.6	7086.0	7730.5	7779.8	8337.1	8158.9	7233.8
25°	6145.7	6066.1	6073.7	6206.4	6570.4	6987.4	7647.1	7757.0	8454.6	8291.6	7154.2
27.5°	6172.3	6251.9	6274.6	6365.6	6608.3	7017.7	7855.6	8079.3	8746.6	8602.5	7177.0
30°	6403.5	6483.2	6479.4	6634.8	6801.6	7264.2	8321.9	8367.4	9349.4	8993.0	7317.2
32.5°	6684.1	6767.5	6794.0	6976.0	7108.7	7715.3	8890.6	9008.2	9929.5	9607.2	7685.0
35°	7032.9	7002.6	7123.9	7305.9	7590.2	8375.0	9584.4	9781.6	10555.0	10403.4	8064.1
37.5°	7468.9	7431.0	7548.5	7844.2	8230.9	9156.0	10225.2	10354.1	11010.0	11142.7	8765.5
40°	7776.0	7791.2	8147.5	8545.6	8955.1	9899.1	10630.9	10756.0	11328.5	11832.7	9296.3
42.5°	8287.8	8382.6	8811.0	9296.3	9724.7	10456.5	10960.7	11082.0	11476.3	12386.2	10012.9
45°	9030.9	8989.2	9463.1	10005.3	10479.2	11036.5	11351.2	11309.5	11563.5	12936.0	10464.0
47.5°	9986.3	9993.9	10308.6	10771.1	11264.0	11540.8	11787.2	11639.3	11745.5	13516.0	11066.9
50°	10638.4	10695.3	10949.3	11423.2	11669.7	12094.3	12409.0	12318.0	12283.9	13864.8	11446.0
52.5°	10805.3	10975.9	11112.3	11703.8	12280.1	12951.1	13353.0	13546.4	12939.8	13982.4	11927.5
55°	9546.5	9698.2	10179.7	10991.0	12511.3	14308.4	14862.0	14865.8	13796.6	14505.6	12264.9
57.5°	7631.9	7324.8	7620.5	8481.2	10577.8	14251.6	15597.5	15419.3	14225.0	14198.5	11973.0
60°	5277.5	5201.7	5220.6	5561.9	7321.0	11336.0	13899.0	14130.2	13099.0	12306.6	9478.3
62.5°	4181.8	4117.4	4034.0	3996.0	4545.8	7063.2	9804.3	10130.4	9159.8	7980.7	5618.7
65°	3275.7	3237.8	3249.2	3400.8	3397.0	4007.4	5360.9	5228.2	4185.6	3093.7	1766.8
67.5°	2210.3	2267.2	2312.7	2771.5	3006.5	2790.4	2589.5	2513.6	1361.1	572.5	390.5
70°	1243.6	1251.1	1300.4	1732.6	2282.4	2164.8	1785.7	1785.7	678.6	208.5	223.7
72.5°	678.6	655.9	610.4	746.9	1016.1	1031.2	796.2	693.8	200.9	136.5	125.1
75°	329.8	326.1	280.6	231.3	219.9	182.0	140.3	128.9	91.0	87.2	75.8
77.5°	68.2	64.5	34.1	34.1	37.9	41.7	53.1	53.1	64.5	64.5	53.1
80°	0.0	0.0	3.8	15.2	26.5	37.9	45.5	45.5	53.1	53.1	41.7
82.5°	0.0	0.0	3.8	11.4	22.7	34.1	41.7	45.5	53.1	56.9	45.5
85°	0.0	0.0	0.0	7.6	19.0	26.5	22.7	22.7	19.0	15.2	7.6
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°	8981.6	8981.6	8981.6	8981.6	8981.6	8981.6	8981.6	8981.6	8981.6	8981.6	8981.6
2.5°	8848.9	8841.4	8666.9	8568.4	8390.2	8234.7	8109.6	8018.6	8018.6	7961.8	7908.7
5°	8598.7	8534.3	8162.7	7923.9	7586.4	7336.2	7165.6	7032.9	6824.4	6881.2	6657.6
7.5°	8287.8	8124.8	7631.9	7268.0	6801.6	6445.2	6081.3	5759.0	5448.1	5307.8	5383.7
10°	7954.2	7669.8	7006.4	6430.1	5850.0	5197.9	4773.3	4257.6	3939.2	3920.2	3836.8
12.5°	7601.6	7279.3	6471.8	5675.6	4913.5	4128.7	3480.4	2998.9	2782.8	2544.0	2589.5
15°	7336.2	6858.5	5876.5	4917.3	3905.1	3112.7	2460.6	2089.0	1884.3	1827.4	1808.5
17.5°	7048.1	6536.2	5269.9	4109.8	3063.4	2240.7	1770.5	1592.4	1512.7	1512.7	1501.4
20°	6748.5	6172.3	4667.1	3359.1	2297.5	1672.0	1418.0	1361.1	1357.3	1353.5	1353.5
22.5°	6551.4	5755.2	4121.2	2669.1	1732.6	1338.3	1232.2	1209.4	1224.6	1270.1	1270.1
25°	6342.9	5353.3	3518.3	2058.7	1342.1	1148.8	1088.1	1103.3	1141.2	1182.9	1167.7
27.5°	6130.6	5091.7	2949.6	1615.1	1099.5	1004.7	982.0	1016.1	1057.8	1095.7	1084.3
30°	6081.3	4811.2	2411.3	1224.6	944.0	875.8	891.0	921.3	963.0	978.2	993.3
32.5°	6157.1	4591.3	1975.3	1004.7	822.7	803.8	803.8	818.9	845.5	879.6	868.2
35°	6373.2	4466.2	1562.0	872.0	754.5	735.5	731.7	746.9	762.1	773.4	762.1
37.5°	6703.0	4367.6	1277.7	773.4	709.0	678.6	671.1	667.3	682.4	686.2	693.8
40°	7123.9	4420.7	1084.3	712.8	663.5	629.4	606.6	606.6	606.6	618.0	621.8
42.5°	7578.8	4492.7	936.5	678.6	621.8	580.1	557.3	549.7	557.3	572.5	568.7
45°	8056.5	4633.0	841.7	625.6	583.9	530.8	500.5	492.9	511.8	542.2	538.4
47.5°	8503.9	4833.9	769.6	591.4	545.9	496.7	458.7	451.2	485.3	527.0	530.8
50°	8951.3	5182.7	743.1	564.9	519.4	462.5	428.4	420.8	458.7	511.8	523.2
52.5°	9466.9	5558.1	724.1	530.8	489.1	436.0	398.1	390.5	432.2	500.5	504.2
55°	9804.3	5876.5	709.0	470.1	432.2	394.3	364.0	360.2	405.7	466.3	481.5
57.5°	9410.0	5433.0	655.9	409.5	367.8	348.8	322.3	322.3	360.2	417.0	428.4
60°	7135.3	3575.2	466.3	329.8	310.9	299.5	288.1	288.1	318.5	360.2	364.0
62.5°	4178.0	1926.0	299.5	265.4	265.4	254.0	235.1	235.1	265.4	288.1	291.9
65°	1239.8	618.0	242.6	227.5	223.7	204.7	185.8	182.0	204.7	216.1	212.3
67.5°	356.4	284.3	200.9	189.6	185.8	155.4	144.1	140.3	144.1	136.5	132.7
70°	212.3	193.4	155.4	159.2	140.3	113.7	102.4	98.6	91.0	79.6	72.0
72.5°	117.5	117.5	113.7	121.3	98.6	75.8	64.5	53.1	41.7	34.1	30.3
75°	72.0	75.8	79.6	83.4	64.5	49.3	41.7	26.5	15.2	7.6	7.6
77.5°	49.3	53.1	56.9	60.7	53.1	45.5	34.1	19.0	3.8	0.0	0.0
80°	37.9	41.7	49.3	53.1	56.9	60.7	45.5	19.0	3.8	0.0	0.0
82.5°	41.7	45.5	56.9	53.1	53.1	53.1	41.7	19.0	3.8	0.0	0.0
85°	7.6	11.4	19.0	19.0	26.5	34.1	26.5	7.6	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)