

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: P456067

Luminaire Tested: **GALN-SA7B-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31731 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

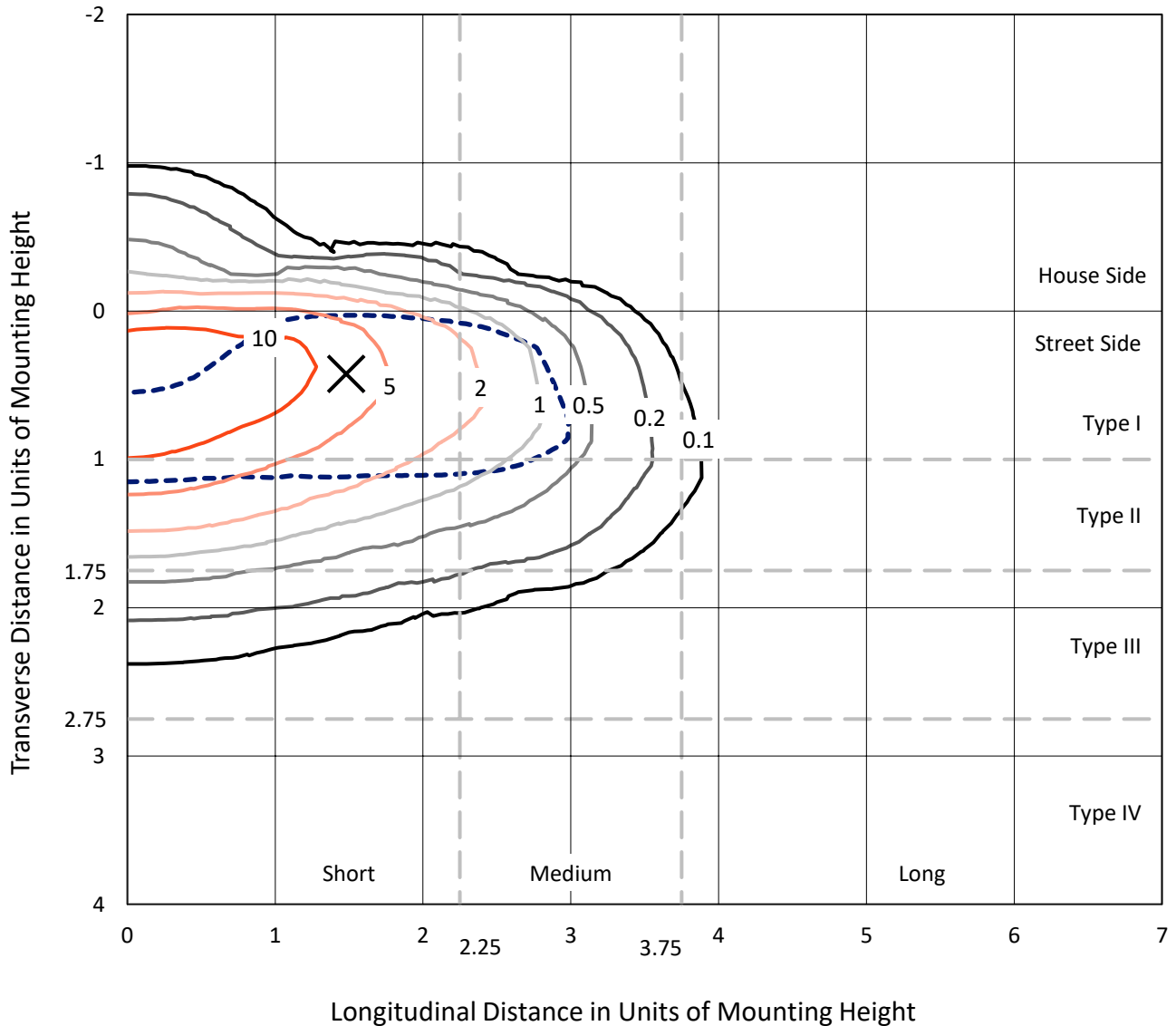
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

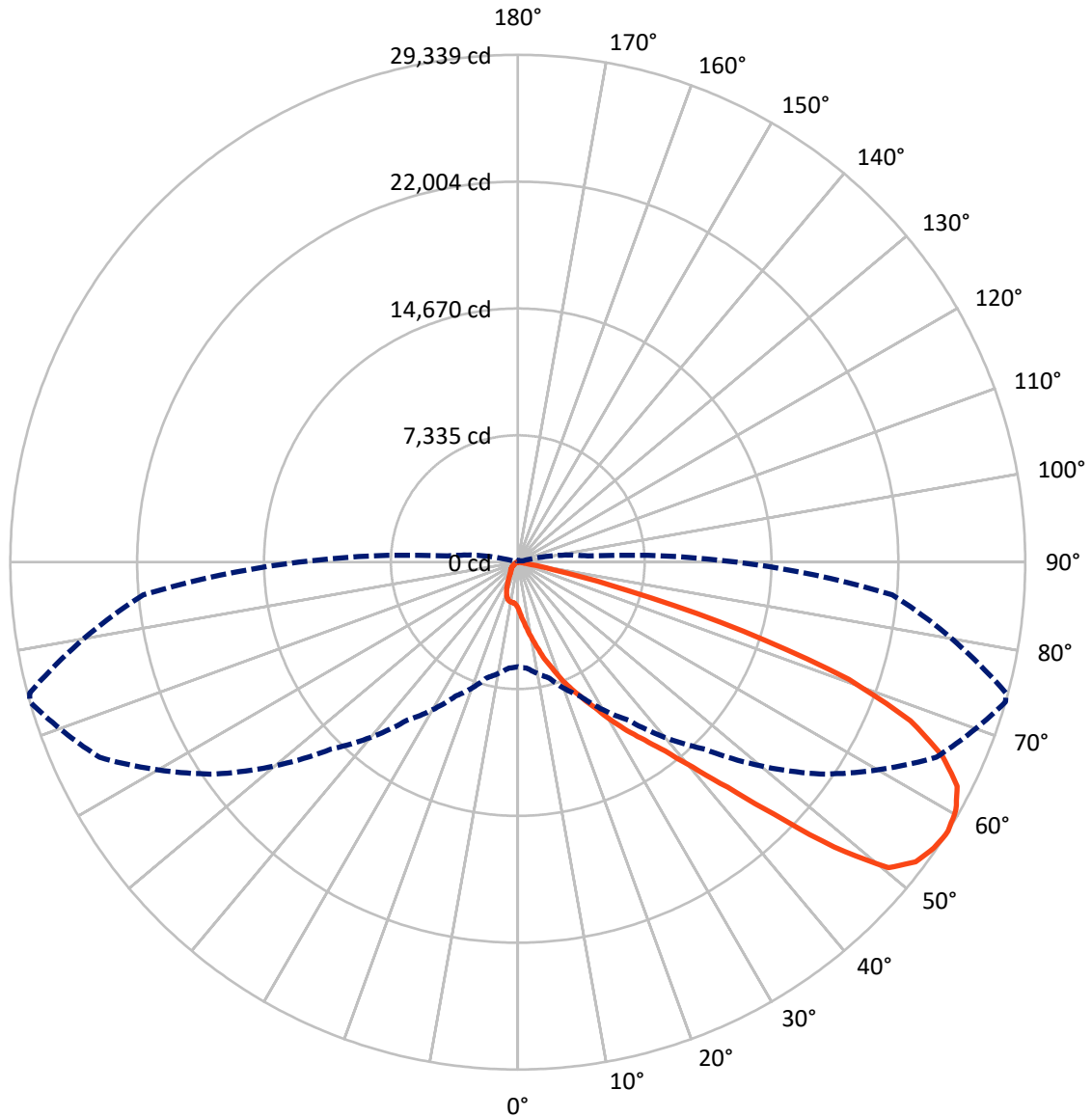
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1830.1	0.0	1830.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	29900.8	0.0	29900.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	31731.0	0.0	31731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.8	1.0
10°-20°	1264.3	4.0
20°-30°	2705.3	8.5
30°-40°	4972.3	15.7
40°-50°	7622.6	24.0
50°-60°	8063.7	25.4
60°-70°	5265.8	16.6
70°-80°	1438.8	4.5
80°-90°	77.5	0.2
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°	31731.0	100.0
0°-180°	31731.0	100.0

Coefficient of Utilization



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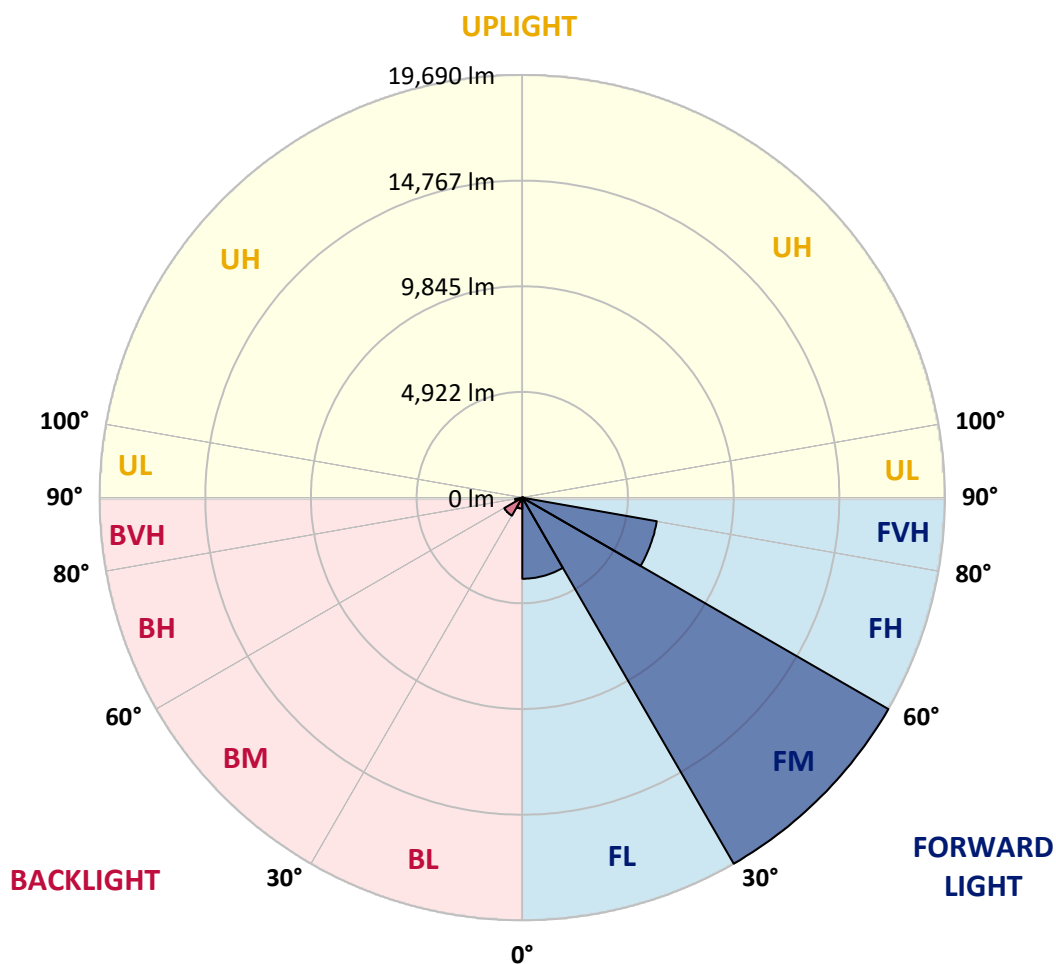
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3779.1	11.9			
FM (30°-60°)	19689.7	62.1			
FH (60°-80°)	6361.0	20.0			G3/7500
FVH (80°-90°)	71.1	0.2			G1/100
BL (0°-30°)	511.2	1.6	B2/1000		
BM (30°-60°)	968.9	3.1	B1/1000		
BH (60°-80°)	343.6	1.1	B1/500		G1/500
BVH (80°-90°)	6.4	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4
2.5°	3888.7	3853.6	3783.5	3759.4	3656.4	3496.5	3356.3	3167.9	3018.9	3003.6	2823.9
5°	5207.5	5128.6	5095.8	4938.0	4690.5	4458.3	4059.5	3757.2	3408.9	3382.6	3021.1
7.5°	6478.2	6368.6	6335.8	6186.8	5897.6	5531.7	5014.7	4464.8	3912.8	3862.4	3286.2
10°	7398.3	7413.6	7354.5	7255.9	7021.5	6649.1	6011.5	5260.1	4473.6	4410.1	3584.1
12.5°	8057.7	8055.5	8066.5	8064.3	7939.4	7656.8	6986.4	6121.1	5091.4	4966.5	3925.9
15°	8487.1	8493.7	8526.6	8640.5	8653.6	8478.4	7919.7	6944.8	5807.8	5652.2	4296.1
17.5°	8920.9	8966.9	9019.5	9126.8	9223.2	9153.1	8758.8	7803.6	6456.3	6340.2	4692.7
20°	9637.3	9700.8	9670.2	9735.9	9786.3	9792.8	9488.3	8596.7	7242.8	7047.8	5146.2
22.5°	10783.1	10780.9	10702.0	10583.7	10485.1	10480.7	10204.7	9411.6	7957.0	7768.5	5601.9
25°	12231.2	12237.8	12084.4	11747.0	11501.7	11201.5	10883.9	10125.8	8721.5	8489.3	6081.6
27.5°	13891.8	13850.2	13618.0	13153.5	12667.2	12154.5	11696.6	10956.1	9532.1	9339.3	6631.5
30°	15383.7	15368.4	15096.7	14529.3	13889.6	13374.8	12711.0	11996.8	10581.5	10344.9	7247.1
32.5°	16772.7	16794.6	16417.8	15830.7	15212.9	14619.2	13918.1	12991.4	11611.2	11276.0	7917.5
35°	17857.1	17879.0	17489.1	17000.5	16365.2	15872.3	15204.1	14051.7	12627.7	12345.1	8688.7
37.5°	18435.5	18464.0	18238.3	17870.3	17473.8	17226.2	16604.0	15416.6	13863.3	13692.4	9600.0
40°	18545.0	18577.9	18479.3	18380.7	18358.8	18536.3	18354.5	17024.6	15576.5	15309.3	10958.3
42.5°	18216.4	18260.2	18304.1	18523.1	18970.1	19620.7	20253.9	19206.7	17782.7	17423.4	12619.0
45°	17353.3	17348.9	17521.9	18089.4	19090.6	20479.5	22238.7	21938.6	20788.4	20361.2	14965.3
47.5°	15876.7	15854.8	16229.4	17037.8	18597.6	20637.3	23857.7	25255.4	24624.5	24230.2	17486.9
50°	13626.7	13734.1	14323.4	15451.7	17373.0	20159.7	24357.2	27430.9	27772.7	27354.2	19524.3
52.5°	10991.2	10986.8	11911.3	13442.7	15559.0	19108.1	24008.9	27825.2	28795.8	28475.9	20527.7
55°	8134.4	8191.4	9153.1	10697.6	13203.9	17188.9	22871.9	27419.9	29185.7	28960.1	21189.3
57°	6051.0	6151.7	6922.9	8557.2	11153.3	15289.5	21358.0	26694.8	29339.1	29216.4	21739.2
57.5°	5647.9	5652.2	6403.7	7889.0	10553.0	14560.0	20924.2	26392.5	29334.7	29266.8	21829.0
60°	3476.8	3586.3	4105.5	5332.4	7724.7	11363.6	18017.1	24655.2	29106.9	29205.4	22212.4
62.5°	2081.3	2127.3	2464.6	3213.9	4979.7	8294.3	14744.0	22431.5	28513.1	28813.3	22186.1
65°	1338.6	1349.5	1502.9	1945.4	3113.1	5606.2	11361.4	19493.7	26977.4	27529.5	21318.6
67.5°	1034.1	1051.6	1112.9	1277.2	1805.2	3492.1	8035.8	16358.6	24493.0	25205.1	19215.4
70°	917.9	926.7	948.6	1001.2	1194.0	1971.7	4999.4	12778.9	20310.8	20512.4	15037.6
72.5°	749.3	773.3	841.3	858.8	946.4	1231.2	2782.3	8576.9	13646.4	13696.8	8412.6
75°	580.6	584.9	685.7	736.1	797.4	847.8	1242.2	4324.6	6554.8	6204.3	3242.4
77.5°	433.8	453.5	499.5	563.0	650.7	606.8	556.5	1629.9	2035.2	1998.0	942.0
80°	278.2	289.2	348.3	422.8	506.1	396.5	313.3	477.6	446.9	460.1	225.7
82.5°	140.2	142.4	223.5	344.0	322.0	199.4	197.2	195.0	166.5	164.3	105.2
85°	15.3	32.9	144.6	197.2	144.6	65.7	92.0	89.8	87.6	89.8	61.3
87.5°	2.2	2.2	24.1	28.5	19.7	21.9	26.3	28.5	35.1	32.9	26.3
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°	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4	2657.4
2.5°	2736.3	2648.7	2486.5	2331.0	2214.9	2140.4	2044.0	2009.0	1958.6	1952.0	1927.9
5°	2854.6	2688.1	2405.5	2182.0	2002.4	1866.6	1748.3	1649.7	1570.8	1553.3	1562.0
7.5°	3023.3	2775.7	2381.4	2076.9	1827.1	1594.9	1406.5	1290.4	1207.1	1176.5	1180.8
10°	3213.9	2891.8	2377.0	1965.1	1583.9	1299.1	1093.2	990.2	942.0	924.5	904.8
12.5°	3439.5	3025.5	2366.1	1792.1	1316.7	1036.2	889.5	828.1	782.1	769.0	769.0
15°	3693.7	3167.9	2313.5	1577.4	1069.1	856.6	758.0	709.8	694.5	681.3	681.3
17.5°	3958.8	3308.1	2203.9	1312.3	887.3	733.9	672.6	644.1	622.2	606.8	606.8
20°	4261.1	3446.1	2028.7	1077.9	749.3	655.0	606.8	574.0	556.5	543.3	538.9
22.5°	4548.1	3557.8	1805.2	885.1	652.9	589.3	545.5	510.5	492.9	486.4	486.4
25°	4846.0	3625.8	1535.7	731.7	595.9	534.6	486.4	457.9	442.5	438.2	436.0
27.5°	5135.2	3665.2	1299.1	639.7	543.3	484.2	438.2	416.3	400.9	396.5	398.7
30°	5485.7	3671.8	1069.1	574.0	497.3	436.0	394.3	374.6	365.9	361.5	359.3
32.5°	5840.6	3663.0	898.2	534.6	453.5	394.3	359.3	344.0	337.4	330.8	330.8
35°	6239.4	3617.0	764.6	495.1	411.9	359.3	328.6	315.5	306.7	300.1	297.9
37.5°	6734.5	3592.9	687.9	451.3	374.6	326.4	297.9	284.8	278.2	269.5	267.3
40°	7514.4	3700.2	663.8	411.9	337.4	295.8	269.5	254.1	245.4	236.6	234.4
42.5°	8487.1	3888.7	624.4	372.4	304.5	267.3	241.0	223.5	208.1	197.2	192.8
45°	9746.8	4136.2	563.0	330.8	276.0	236.6	212.5	190.6	170.9	162.1	159.9
47.5°	11067.9	4375.0	508.3	297.9	245.4	210.3	184.0	159.9	142.4	135.8	133.6
50°	11878.5	4423.2	473.2	260.7	214.7	181.8	155.5	133.6	122.7	116.1	116.1
52.5°	12248.7	4346.5	425.0	227.8	186.2	159.9	133.6	116.1	109.5	105.2	103.0
55°	12507.2	4228.2	361.5	197.2	159.9	135.8	118.3	105.2	96.4	92.0	89.8
57°	12658.4	4068.3	313.3	173.1	138.0	118.3	105.2	94.2	85.4	76.7	76.7
57.5°	12665.0	4007.0	300.1	170.9	131.4	113.9	103.0	92.0	81.1	72.3	70.1
60°	12470.0	3586.3	241.0	144.6	105.2	96.4	85.4	72.3	57.0	48.2	46.0
62.5°	11843.4	3051.8	199.4	122.7	85.4	74.5	61.3	54.8	39.4	28.5	28.5
65°	10894.8	2475.6	170.9	98.6	70.1	54.8	41.6	39.4	24.1	13.1	11.0
67.5°	9523.4	1927.9	144.6	81.1	59.2	39.4	28.5	26.3	13.1	4.4	0.0
70°	7255.9	1314.5	120.5	65.7	43.8	28.5	19.7	15.3	8.8	2.2	0.0
72.5°	4182.2	723.0	100.8	50.4	32.9	21.9	15.3	8.8	8.8	0.0	0.0
75°	1494.1	311.1	76.7	37.2	26.3	17.5	11.0	4.4	6.6	2.2	0.0
77.5°	475.4	166.5	50.4	28.5	21.9	13.1	8.8	4.4	4.4	2.2	0.0
80°	140.2	87.6	30.7	24.1	15.3	11.0	6.6	2.2	4.4	2.2	0.0
82.5°	76.7	43.8	24.1	17.5	15.3	8.8	6.6	2.2	2.2	2.2	0.0
85°	39.4	26.3	19.7	17.5	15.3	8.8	6.6	2.2	0.0	2.2	2.2
87.5°	21.9	19.7	19.7	17.5	15.3	11.0	6.6	2.2	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)