

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: P452558

Luminaire Tested: **GALN-SA3C-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452558
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-SA3C-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA 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: 15303 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

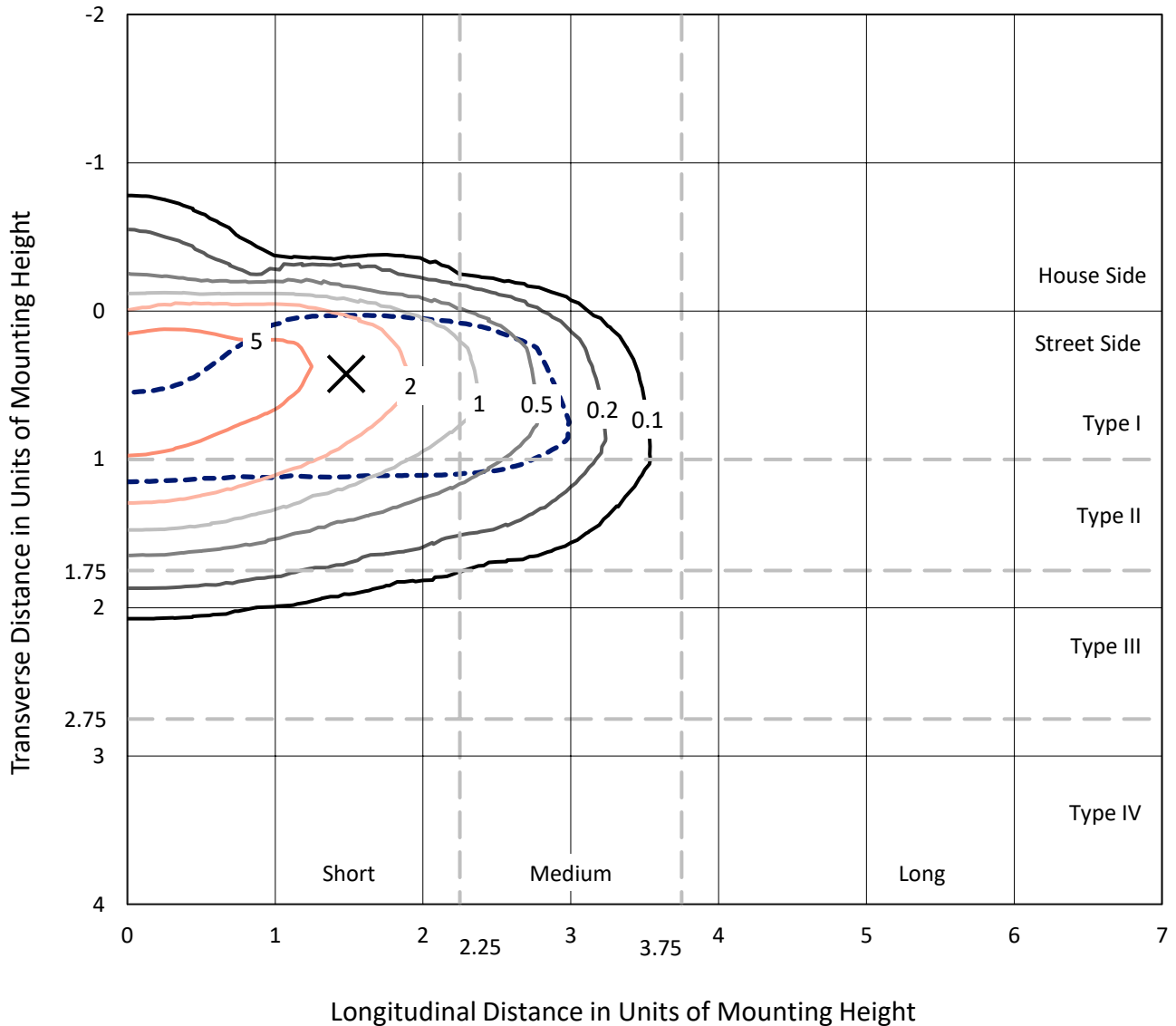
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452558
 CATALOG NUMBER: GALN-SA3C-730-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

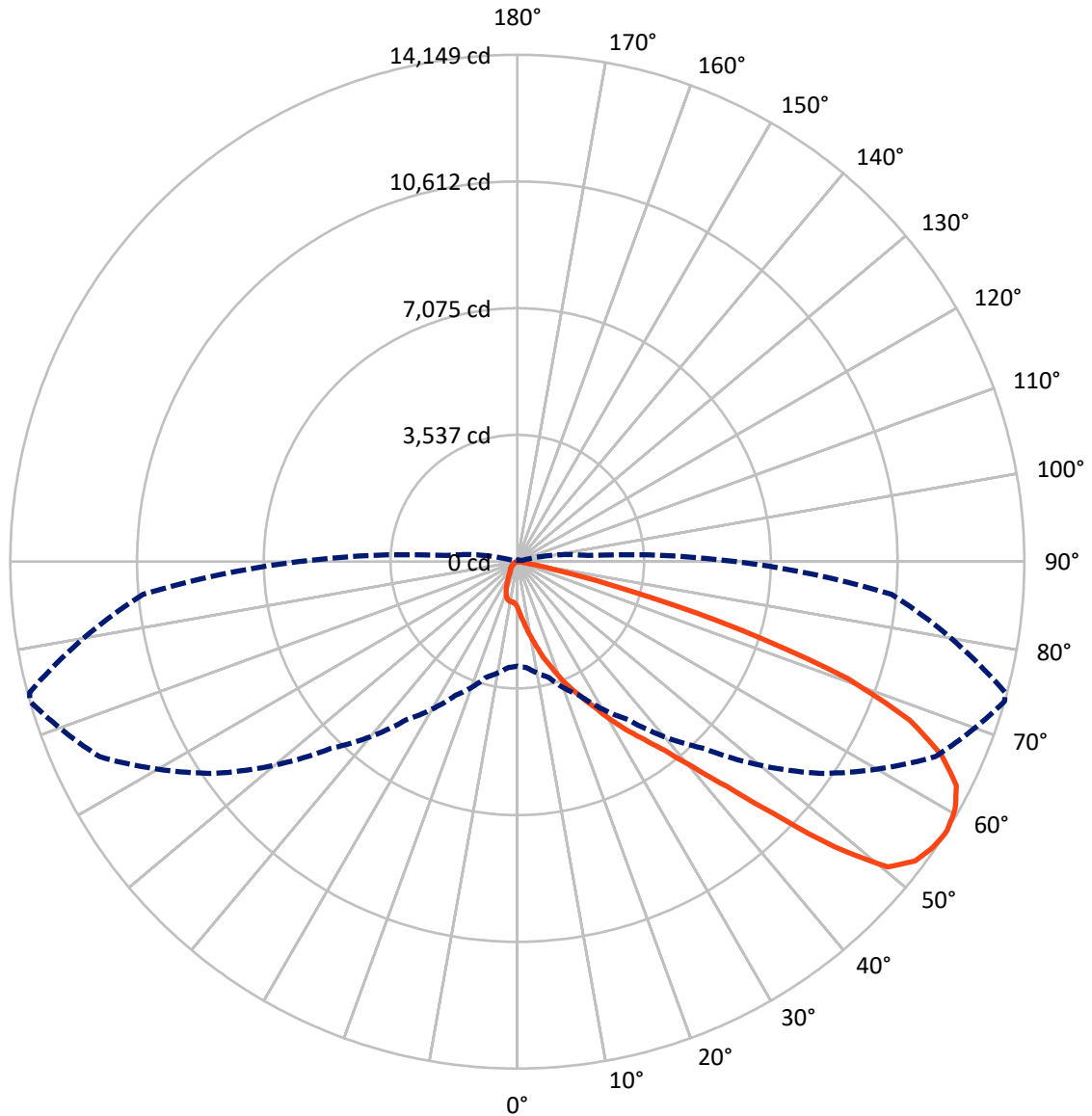
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

REPORT NUMBER: P452558
CATALOG NUMBER: GALN-SA3C-730-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452558

CATALOG NUMBER: GALN-SA3C-730-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	882.6	0.0	882.6
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	14420.4	0.0	14420.4
	% Fixture	94.2	0.0	94.2
Total	Lumens	15303.0	0.0	15303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	1.0
10°-20°	609.7	4.0
20°-30°	1304.7	8.5
30°-40°	2398.0	15.7
40°-50°	3676.2	24.0
50°-60°	3888.9	25.4
60°-70°	2539.5	16.6
70°-80°	693.9	4.5
80°-90°	37.4	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°	15303.0	100.0
0°-180°	15303.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452558

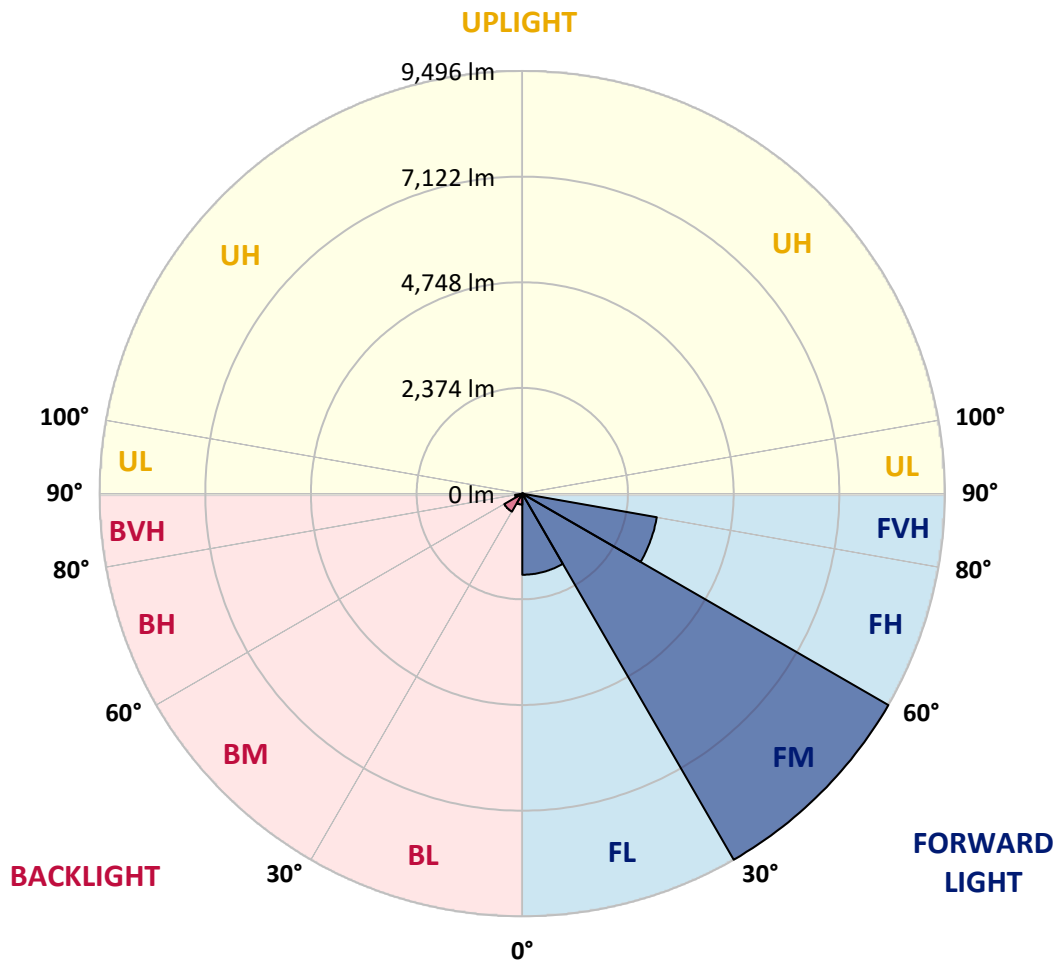
CATALOG NUMBER: GALN-SA3C-730-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1822.6	11.9			
FM (30°-60°)	9495.8	62.1			
FH (60°-80°)	3067.7	20.0			G2/5000
FVH (80°-90°)	34.3	0.2			G1/100
BL (0°-30°)	246.5	1.6	B1/500		
BM (30°-60°)	467.3	3.1	B1/1000		
BH (60°-80°)	165.7	1.1	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P452558

CATALOG NUMBER: GALN-SA3C-730-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1875.4	1858.5	1824.7	1813.1	1763.4	1686.3	1618.6	1527.8	1455.9	1448.5	1361.9
5°	2511.4	2473.4	2457.6	2381.5	2262.1	2150.1	1957.8	1812.0	1644.0	1631.3	1457.0
7.5°	3124.2	3071.4	3055.6	2983.7	2844.3	2667.8	2418.5	2153.3	1887.0	1862.7	1584.8
10°	3568.0	3575.4	3546.9	3499.3	3386.3	3206.7	2899.2	2536.8	2157.5	2126.9	1728.5
12.5°	3886.0	3885.0	3890.3	3889.2	3829.0	3692.7	3369.4	2952.0	2455.4	2395.2	1893.4
15°	4093.1	4096.3	4112.1	4167.1	4173.4	4088.9	3819.5	3349.3	2800.9	2725.9	2071.9
17.5°	4302.3	4324.5	4349.9	4401.6	4448.1	4414.3	4224.1	3763.5	3113.7	3057.7	2263.1
20°	4647.8	4678.4	4663.7	4695.3	4719.6	4722.8	4576.0	4145.9	3493.0	3399.0	2481.9
22.5°	5200.4	5199.3	5161.3	5104.2	5056.7	5054.6	4921.5	4539.0	3837.4	3746.6	2701.6
25°	5898.8	5901.9	5828.0	5665.3	5546.9	5402.2	5249.0	4883.4	4206.2	4094.2	2933.0
27.5°	6699.6	6679.6	6567.6	6343.6	6109.0	5861.8	5641.0	5283.9	4597.1	4504.1	3198.2
30°	7419.2	7411.8	7280.7	7007.1	6698.6	6450.3	6130.2	5785.7	5103.2	4989.1	3495.1
32.5°	8089.0	8099.6	7917.9	7634.7	7336.7	7050.4	6712.3	6265.4	5599.8	5438.1	3818.4
35°	8612.0	8622.6	8434.5	8198.9	7892.5	7654.8	7332.5	6776.8	6090.0	5953.7	4190.3
37.5°	8890.9	8904.7	8795.9	8618.4	8427.1	8307.7	8007.7	7435.0	6685.9	6603.5	4629.8
40°	8943.8	8959.6	8912.1	8864.5	8854.0	8939.5	8851.9	8210.5	7512.1	7383.2	5284.9
42.5°	8785.3	8806.4	8827.6	8933.2	9148.7	9462.5	9767.9	9262.9	8576.1	8402.8	6085.8
45°	8369.0	8366.9	8450.4	8724.0	9206.9	9876.7	10725.1	10580.4	10025.7	9819.7	7217.4
47.5°	7656.9	7646.3	7827.0	8216.9	8969.1	9952.8	11505.9	12180.0	11875.7	11685.5	8433.5
50°	6571.8	6623.6	6907.8	7451.9	8378.5	9722.5	11746.8	13229.2	13394.0	13192.2	9416.1
52.5°	5300.8	5298.6	5744.5	6483.0	7503.7	9215.3	11578.8	13419.4	13887.4	13733.2	9900.0
55°	3923.0	3950.5	4414.3	5159.2	6367.9	8289.8	11030.5	13223.9	14075.5	13966.7	10219.0
57°	2918.2	2966.8	3338.7	4126.9	5378.9	7373.7	10300.4	12874.2	14149.4	14090.3	10484.2
57.5°	2723.8	2725.9	3088.3	3804.7	5089.4	7021.9	10091.2	12728.4	14147.3	14114.6	10527.6
60°	1676.8	1729.6	1980.0	2571.7	3725.4	5480.4	8689.1	11890.5	14037.4	14085.0	10712.5
62.5°	1003.7	1025.9	1188.6	1550.0	2401.6	4000.1	7110.6	10818.1	13751.1	13895.9	10699.8
65°	645.6	650.8	724.8	938.2	1501.4	2703.7	5479.3	9401.3	13010.5	13276.7	10281.4
67.5°	498.7	507.1	536.7	616.0	870.6	1684.2	3875.5	7889.3	11812.3	12155.7	9267.1
70°	442.7	446.9	457.5	482.8	575.8	950.9	2411.1	6162.9	9795.4	9892.6	7252.2
72.5°	361.3	373.0	405.7	414.2	456.4	593.8	1341.8	4136.4	6581.3	6605.6	4057.2
75°	280.0	282.1	330.7	355.0	384.6	408.9	599.1	2085.6	3161.2	2992.2	1563.7
77.5°	209.2	218.7	240.9	271.5	313.8	292.7	268.4	786.1	981.5	963.6	454.3
80°	134.2	139.5	168.0	203.9	244.1	191.2	151.1	230.3	215.5	221.9	108.8
82.5°	67.6	68.7	107.8	165.9	155.3	96.1	95.1	94.0	80.3	79.2	50.7
85°	7.4	15.8	69.7	95.1	69.7	31.7	44.4	43.3	42.3	43.3	29.6
87.5°	1.1	1.1	11.6	13.7	9.5	10.6	12.7	13.7	16.9	15.8	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452558

CATALOG NUMBER: GALN-SA3C-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1319.6	1277.4	1199.2	1124.2	1068.2	1032.3	985.8	968.9	944.6	941.4	929.8
5°	1376.7	1296.4	1160.1	1052.3	965.7	900.2	843.1	795.6	757.6	749.1	753.3
7.5°	1458.1	1338.7	1148.5	1001.6	881.2	769.2	678.3	622.3	582.2	567.4	569.5
10°	1550.0	1394.7	1146.4	947.7	763.9	626.5	527.2	477.6	454.3	445.9	436.4
12.5°	1658.8	1459.1	1141.1	864.3	635.0	499.8	429.0	399.4	377.2	370.9	370.9
15°	1781.4	1527.8	1115.7	760.7	515.6	413.1	365.6	342.3	334.9	328.6	328.6
17.5°	1909.2	1595.4	1062.9	632.9	427.9	353.9	324.4	310.6	300.1	292.7	292.7
20°	2055.0	1662.0	978.4	519.8	361.3	315.9	292.7	276.8	268.4	262.0	259.9
22.5°	2193.4	1715.9	870.6	426.8	314.9	284.2	263.1	246.2	237.7	234.6	234.6
25°	2337.1	1748.6	740.6	352.9	287.4	257.8	234.6	220.8	213.4	211.3	210.3
27.5°	2476.6	1767.6	626.5	308.5	262.0	233.5	211.3	200.7	193.4	191.2	192.3
30°	2645.6	1770.8	515.6	276.8	239.8	210.3	190.2	180.7	176.4	174.3	173.3
32.5°	2816.8	1766.6	433.2	257.8	218.7	190.2	173.3	165.9	162.7	159.5	159.5
35°	3009.1	1744.4	368.7	238.8	198.6	173.3	158.5	152.1	147.9	144.7	143.7
37.5°	3247.9	1732.8	331.8	217.7	180.7	157.4	143.7	137.4	134.2	130.0	128.9
40°	3624.0	1784.5	320.1	198.6	162.7	142.6	130.0	122.6	118.3	114.1	113.1
42.5°	4093.1	1875.4	301.1	179.6	146.9	128.9	116.2	107.8	100.4	95.1	93.0
45°	4700.6	1994.8	271.5	159.5	133.1	114.1	102.5	91.9	82.4	78.2	77.1
47.5°	5337.7	2109.9	245.1	143.7	118.3	101.4	88.8	77.1	68.7	65.5	64.5
50°	5728.7	2133.2	228.2	125.7	103.5	87.7	75.0	64.5	59.2	56.0	56.0
52.5°	5907.2	2096.2	205.0	109.9	89.8	77.1	64.5	56.0	52.8	50.7	49.7
55°	6031.9	2039.2	174.3	95.1	77.1	65.5	57.1	50.7	46.5	44.4	43.3
57°	6104.8	1962.0	151.1	83.5	66.6	57.1	50.7	45.4	41.2	37.0	37.0
57.5°	6108.0	1932.4	144.7	82.4	63.4	54.9	49.7	44.4	39.1	34.9	33.8
60°	6013.9	1729.6	116.2	69.7	50.7	46.5	41.2	34.9	27.5	23.2	22.2
62.5°	5711.8	1471.8	96.1	59.2	41.2	35.9	29.6	26.4	19.0	13.7	13.7
65°	5254.3	1193.9	82.4	47.5	33.8	26.4	20.1	19.0	11.6	6.3	5.3
67.5°	4592.9	929.8	69.7	39.1	28.5	19.0	13.7	12.7	6.3	2.1	0.0
70°	3499.3	633.9	58.1	31.7	21.1	13.7	9.5	7.4	4.2	1.1	0.0
72.5°	2017.0	348.7	48.6	24.3	15.8	10.6	7.4	4.2	4.2	0.0	0.0
75°	720.6	150.0	37.0	18.0	12.7	8.5	5.3	2.1	3.2	1.1	0.0
77.5°	229.3	80.3	24.3	13.7	10.6	6.3	4.2	2.1	2.1	1.1	0.0
80°	67.6	42.3	14.8	11.6	7.4	5.3	3.2	1.1	2.1	1.1	0.0
82.5°	37.0	21.1	11.6	8.5	7.4	4.2	3.2	1.1	1.1	1.1	0.0
85°	19.0	12.7	9.5	8.5	7.4	4.2	3.2	1.1	0.0	1.1	1.1
87.5°	10.6	9.5	9.5	8.5	7.4	5.3	3.2	1.1	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)