

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: STREETWORKS

Report Number: P268659

Luminaire Tested: **GAN-AF-07-LED-U-AFL-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-AFL-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32849.2 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 448
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: 28.75 FT

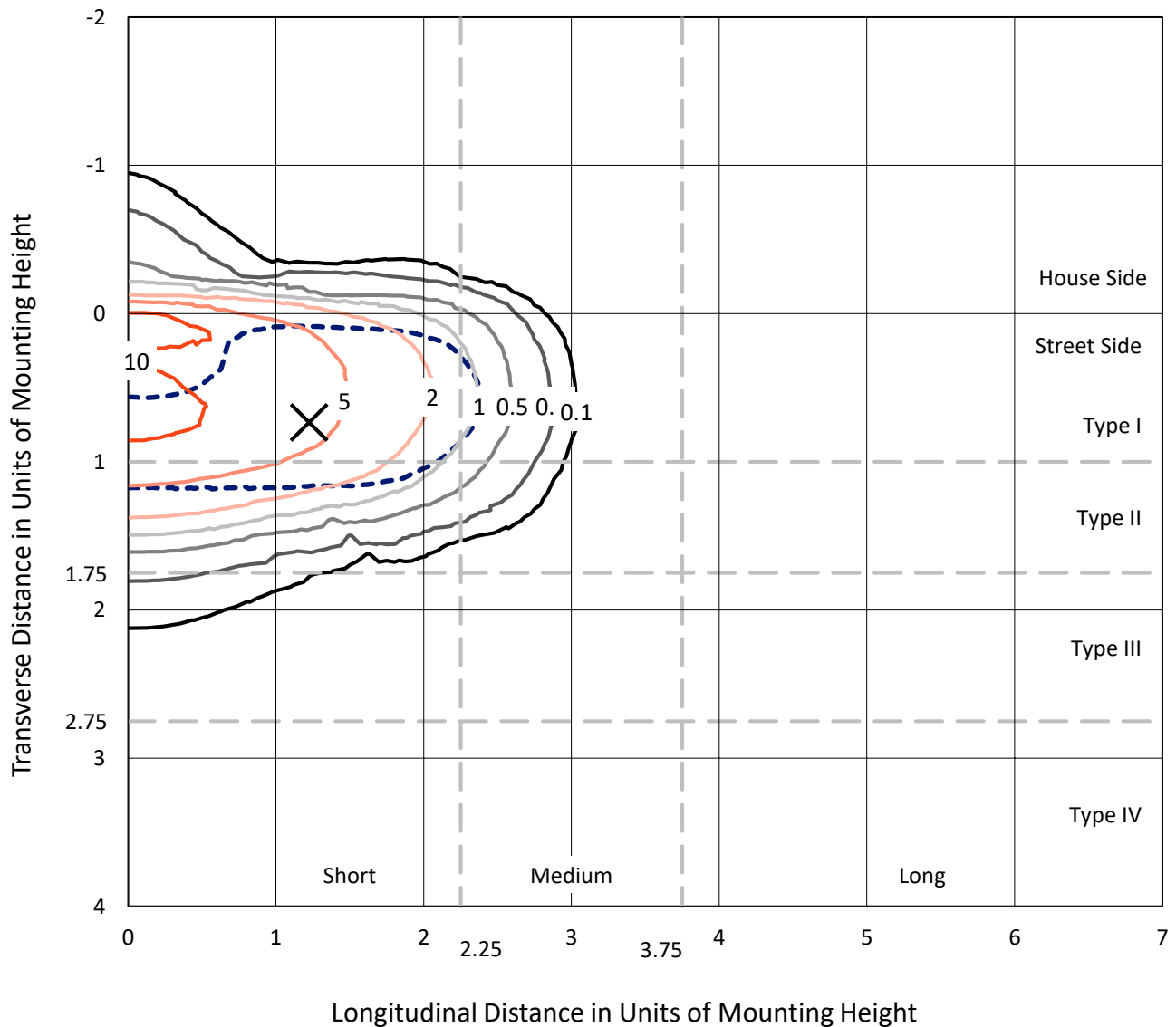


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

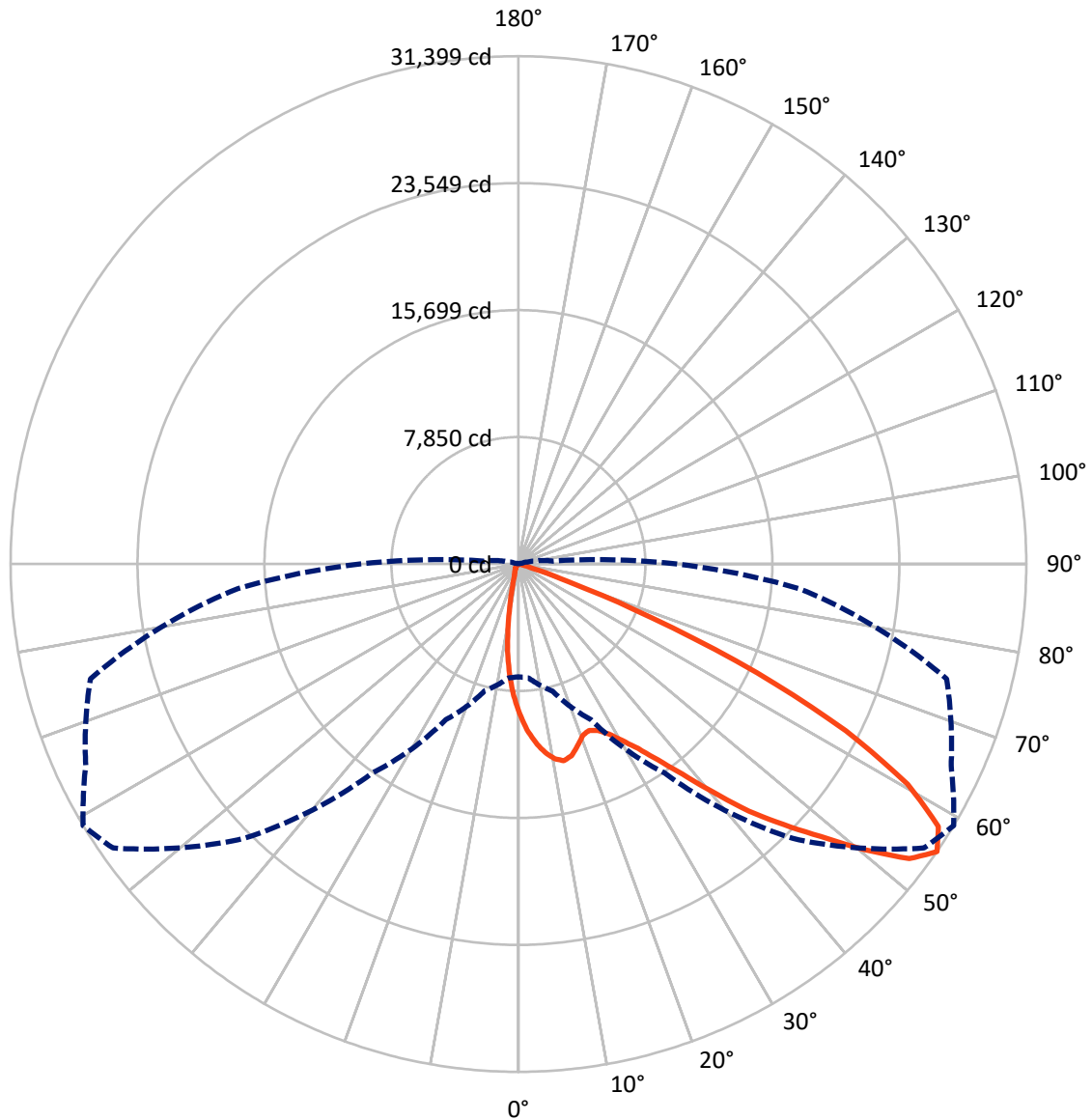


Based on 30 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1834.8	0.0	1834.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	31014.4	0.0	31014.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	32849.2	0.0	32849.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.5	2.4
10°-20°	1854.4	5.6
20°-30°	3155.5	9.6
30°-40°	5426.8	16.5
40°-50°	8378.4	25.5
50°-60°	8423.0	25.6
60°-70°	4319.4	13.1
70°-80°	468.1	1.4
80°-90°	48.9	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°	32849.2	100.0
0°-180°	32849.2	100.0

Coefficient of Utilization



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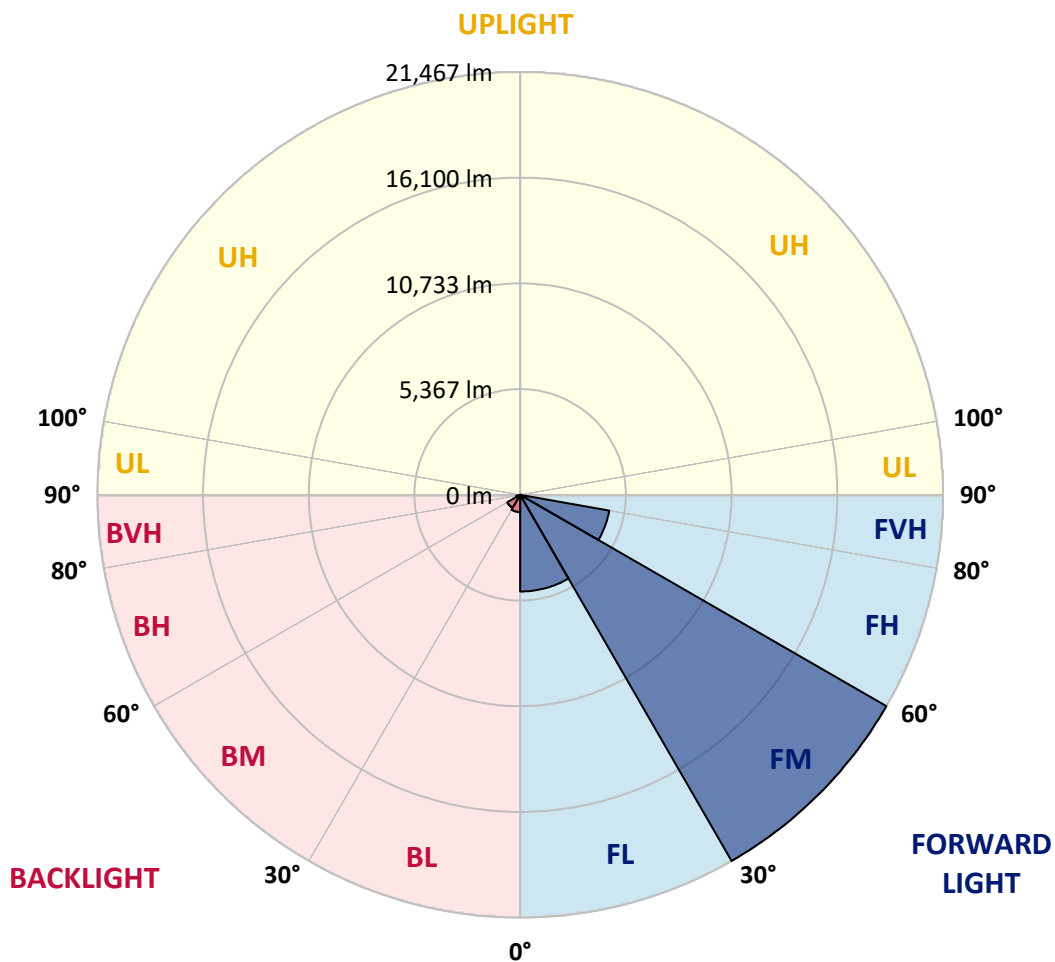
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4908.8	14.9			
FM (30°-60°)	21466.8	65.3			
FH (60°-80°)	4590.9	14.0			G2/5000
FVH (80°-90°)	47.9	0.1			G1/100
BL (0°-30°)	875.8	2.7	B2/1000		
BM (30°-60°)	761.5	2.3	B1/1000		
BH (60°-80°)	196.6	0.6	B1/500		G1/500
BVH (80°-90°)	1.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9247.0	9247.0	9247.0	9247.0	9247.0	9247.0	9247.0	9247.0	9247.0	9247.0	9247.0
2.5°	10941.3	10824.9	10790.0	10766.7	10660.1	10526.3	10344.2	10258.9	10084.5	9803.4	9458.3
5°	11943.4	11922.1	11844.6	11801.9	11687.6	11497.5	11206.9	11067.3	10790.0	10317.0	9698.6
7.5°	11505.3	11639.1	11745.8	11924.1	12148.9	12141.2	11897.0	11751.5	11441.4	10817.2	9966.2
10°	9812.9	9921.6	10096.1	10501.1	11327.0	12056.0	12342.8	12238.1	11989.9	11276.7	10224.0
12.5°	9481.5	9469.8	9500.8	9619.1	10051.5	11090.6	12267.3	12478.5	12428.1	11697.3	10468.2
15°	9657.9	9644.4	9640.5	9681.2	9785.9	10224.0	11699.3	12306.1	12695.7	12087.0	10675.6
17.5°	10152.3	10094.1	10063.1	10030.1	9999.2	10107.6	11016.9	11823.3	12736.3	12428.1	10848.2
20°	10999.3	10902.5	10788.0	10601.9	10427.5	10373.3	10730.0	11327.0	12591.0	12687.9	10960.6
22.5°	12063.7	11939.6	11741.8	11402.6	11047.9	10842.4	10871.5	11170.0	12373.9	12970.8	11013.0
25°	13259.7	13100.8	12837.1	12366.1	11844.6	11480.2	11290.2	11394.9	12275.0	13302.5	11073.0
27.5°	14541.1	14364.7	14019.7	13378.0	12786.7	12294.4	11906.7	11893.1	12443.6	13736.6	11170.0
30°	15810.9	15783.8	15334.0	14655.5	13872.3	13273.4	12715.0	12643.3	12914.8	14337.6	11361.9
32.5°	17505.2	17301.6	16751.1	16053.3	15149.8	14430.6	13769.6	13602.9	13637.8	15037.4	11658.6
35°	19641.5	19418.5	18643.2	17679.6	16669.7	15820.6	15089.8	14862.9	14777.7	16183.1	12158.6
37.5°	21021.7	21017.9	20531.3	19550.4	18466.7	17530.5	16735.7	16470.1	16297.5	17567.3	12934.1
40°	21058.5	21149.7	21213.7	21204.0	20432.4	19569.8	18864.1	18536.5	18135.3	19416.7	13936.3
42.5°	19928.4	20162.9	20727.1	21684.7	22142.2	21799.1	21204.0	20882.2	20285.0	21395.9	15157.6
45°	18400.8	18563.7	19550.4	21314.4	23068.8	24009.1	23555.4	22979.7	22192.6	23460.5	16252.9
47.5°	17716.6	17745.6	18383.4	20320.0	23138.6	25819.7	26095.0	25158.7	23925.6	25123.7	17109.7
50°	15671.3	15723.7	16603.7	18596.6	22320.5	26674.6	28646.1	27758.3	25815.9	26405.0	17421.9
52.5°	11811.6	11885.4	13001.9	15764.4	20071.9	26310.2	30472.2	30257.0	27886.2	27031.3	17439.2
55°	6969.1	7066.1	8132.3	10611.7	15787.6	23991.7	30607.9	31398.8	29520.5	27401.5	17412.1
57.5°	3254.9	3322.7	3933.4	5466.7	9818.8	18961.1	28564.7	30615.7	30421.8	27597.3	17604.1
60°	1729.1	1748.6	1896.0	2366.9	4437.4	12022.9	24577.1	27645.8	29600.0	27868.7	17838.6
62.5°	1322.0	1328.0	1320.1	1376.4	1864.9	5336.9	18577.2	22727.7	26290.8	27665.2	17578.8
65°	1145.7	1155.4	1101.1	1087.6	1196.2	1903.7	11036.2	16200.6	20659.2	24918.3	15808.9
67.5°	1027.4	1031.3	965.4	909.2	928.6	1029.4	4354.1	8869.0	13674.5	18265.1	11458.8
70°	946.0	942.1	870.4	781.3	756.1	703.7	1384.1	3251.0	6534.9	9262.5	5329.1
72.5°	837.5	839.3	804.5	688.2	628.0	492.5	641.7	947.9	1950.2	2524.0	1248.5
75°	742.4	732.7	690.1	616.4	517.7	323.7	317.9	422.7	601.0	597.1	269.4
77.5°	536.9	527.2	540.9	505.9	397.4	209.3	159.0	203.6	244.2	236.6	75.5
80°	393.5	387.7	348.9	420.6	350.9	143.5	98.9	108.5	126.0	106.5	23.3
82.5°	269.4	267.5	246.1	232.7	199.7	87.2	62.1	67.8	81.4	60.0	11.7
85°	42.7	48.5	178.4	141.6	118.2	38.7	42.7	46.5	54.3	33.0	4.0
87.5°	0.0	0.0	83.4	73.8	23.3	15.5	25.2	27.2	27.2	17.4	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°	9247.0	9247.0	9247.0	9247.0	9247.0	9247.0	9247.0	9247.0	9247.0	9247.0	9247.0
2.5°	9281.8	9088.0	8729.3	8359.1	8015.9	7606.8	7325.8	7114.5	6870.2	6804.3	6947.9
5°	9345.7	8979.4	8207.9	7368.4	6579.5	5705.1	5036.3	4507.2	4028.3	3865.4	4012.8
7.5°	9446.5	8901.8	7643.8	6261.5	4889.0	3524.3	2590.0	1975.5	1583.8	1467.6	1529.5
10°	9547.4	8789.5	6990.4	4951.1	3074.5	1715.7	1116.7	891.7	808.4	791.0	800.6
12.5°	9630.8	8638.2	6193.8	3520.4	1643.9	918.8	730.9	694.0	682.4	682.4	686.2
15°	9681.2	8409.5	5249.6	2239.0	946.0	694.0	637.7	626.2	626.2	628.0	632.0
17.5°	9675.4	8118.7	4216.4	1355.1	707.5	614.5	581.6	572.0	570.0	573.7	575.8
20°	9603.6	7738.7	3179.2	893.6	616.4	560.3	527.2	509.9	507.9	511.8	515.6
22.5°	9468.0	7269.7	2273.9	688.2	556.4	507.9	467.2	451.7	451.7	455.6	459.5
25°	9303.1	6695.7	1554.7	583.4	502.2	451.7	413.0	399.3	403.2	413.0	414.8
27.5°	9097.7	6050.3	1056.4	500.1	436.1	395.4	366.4	356.6	366.4	380.0	383.8
30°	8921.2	5377.6	754.0	432.4	370.3	341.1	323.7	323.7	337.4	362.6	368.3
32.5°	8785.6	4726.3	581.6	381.9	321.9	296.6	286.9	296.6	317.9	343.2	348.9
35°	8768.0	4189.2	492.5	341.1	286.9	261.6	257.9	275.3	296.6	315.9	319.8
37.5°	8901.8	3692.9	443.9	308.2	255.8	232.7	228.8	250.1	271.4	294.6	300.5
40°	9155.9	3303.2	409.1	277.1	230.7	205.5	197.7	213.3	242.4	273.4	281.1
42.5°	9485.4	2981.6	370.3	246.1	205.5	170.6	160.8	178.4	209.3	242.4	252.1
45°	9799.4	2704.3	327.6	211.3	172.6	131.8	128.0	151.3	166.7	199.7	207.4
47.5°	9971.9	2460.0	290.8	172.6	133.8	106.5	106.5	112.5	128.0	166.7	174.5
50°	9913.8	2264.3	252.1	128.0	93.1	81.4	81.4	79.5	102.8	133.8	139.5
52.5°	9797.5	2151.8	217.1	98.9	64.0	58.2	52.3	58.2	71.8	85.2	87.2
55°	9780.0	2132.4	182.3	79.5	44.6	38.7	29.0	29.0	29.0	27.2	23.3
57.5°	9915.8	2163.5	153.2	64.0	33.0	25.2	15.5	0.0	0.0	0.0	0.0
60°	10055.3	2196.4	131.8	44.6	23.3	13.6	1.9	0.0	0.0	0.0	0.0
62.5°	9822.6	2122.8	110.5	27.2	17.4	5.7	0.0	0.0	0.0	0.0	0.0
65°	8628.5	1806.8	87.2	19.5	11.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6137.5	1209.7	58.2	11.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	2801.3	505.9	36.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	599.0	157.1	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	122.1	114.4	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	38.7	180.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	23.3	129.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.0	19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)