

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: P300704

Luminaire Tested: **GAA-AF-08-LED-U-AFL-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300704
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: GAA-AF-08-LED-U-AFL-8030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23389.8 lumens
Efficiency: N/A
Efficacy: 70.0 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): 334
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

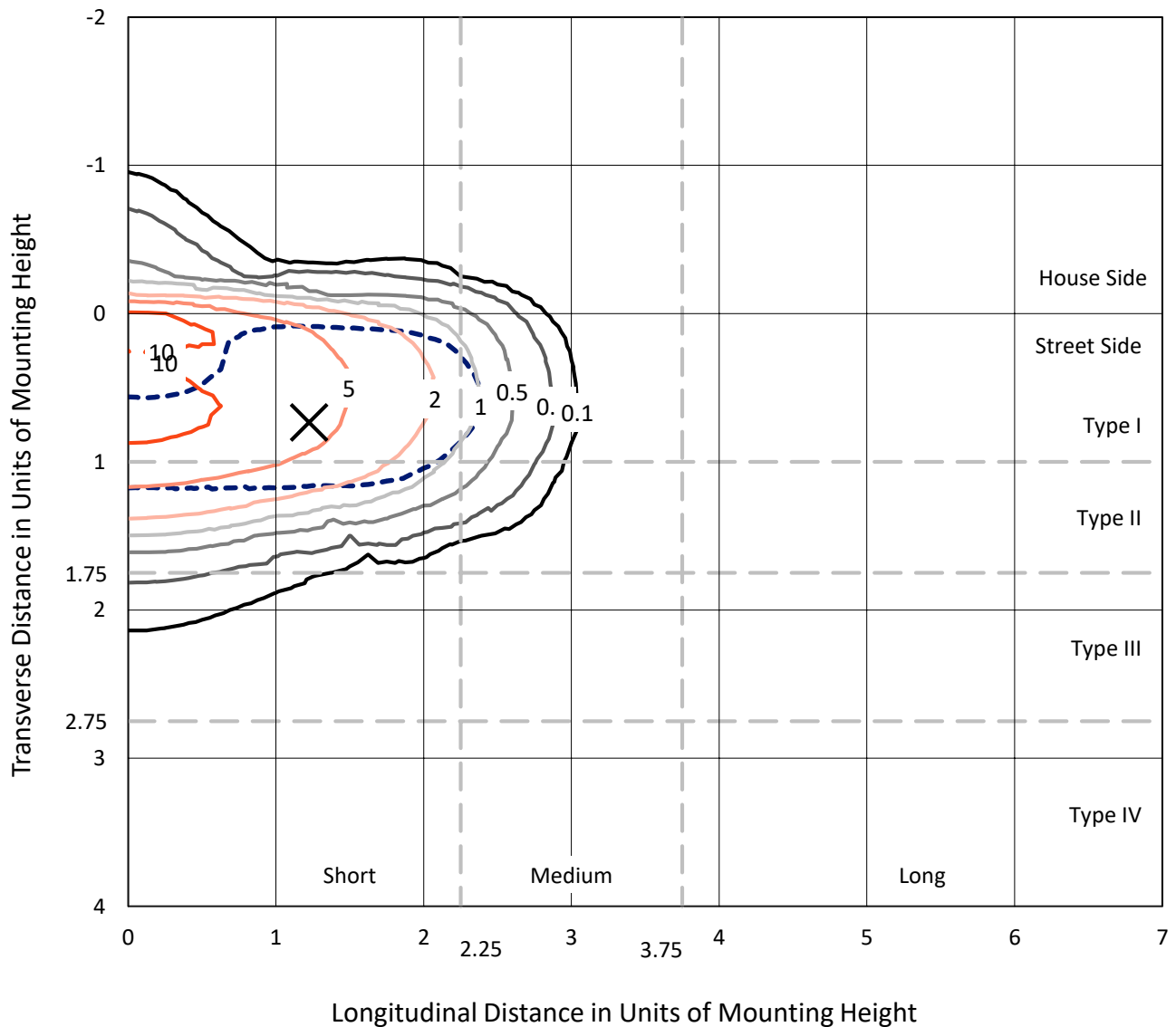


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

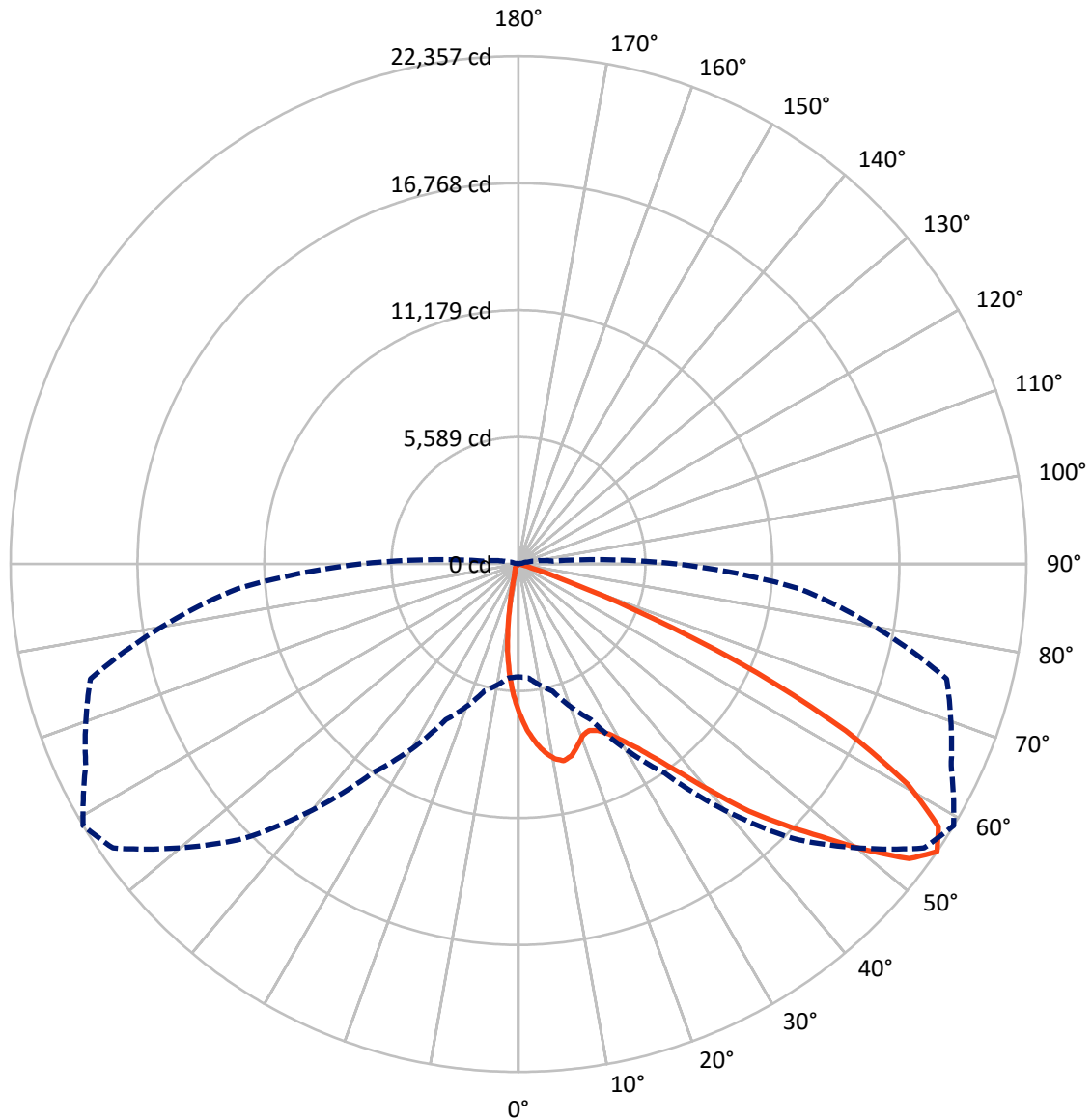


Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - Full Cutoff

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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	1306.5	0.0	1306.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	22083.4	0.0	22083.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	23389.8	0.0	23389.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.5	2.4
10°-20°	1320.4	5.6
20°-30°	2246.9	9.6
30°-40°	3864.1	16.5
40°-50°	5965.8	25.5
50°-60°	5997.5	25.6
60°-70°	3075.6	13.1
70°-80°	333.3	1.4
80°-90°	34.8	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°	23389.8	100.0
0°-180°	23389.8	100.0

Coefficient of Utilization



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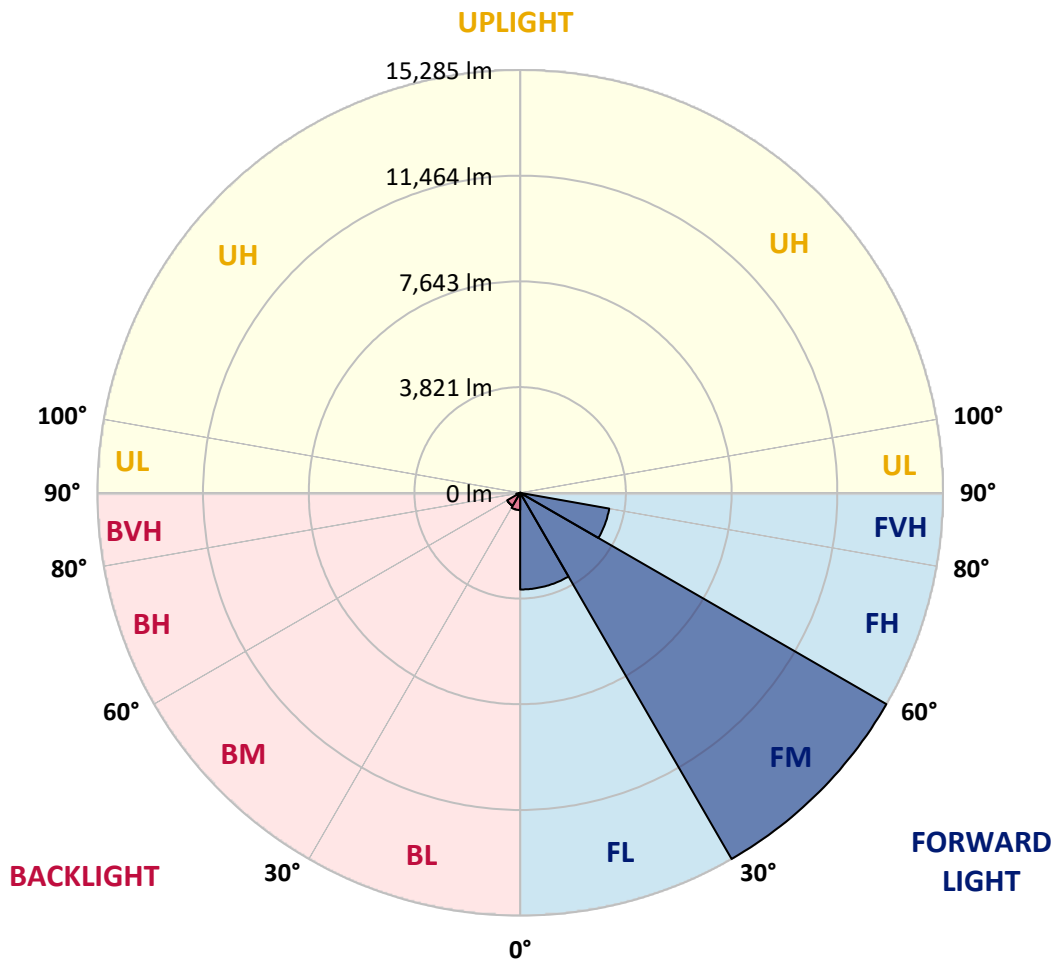
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3495.2	14.9			
FM	(30°-60°)	15285.2	65.3			
FH	(60°-80°)	3268.9	14.0			G2/5000
FVH	(80°-90°)	34.1	0.1			G1/100
BL	(0°-30°)	623.6	2.7	B2/1000		
BM	(30°-60°)	542.2	2.3	B1/1000		
BH	(60°-80°)	140.0	0.6	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	6584.2	6584.2	6584.2	6584.2	6584.2	6584.2	6584.2	6584.2	6584.2	6584.2	6584.2
2.5°	7790.6	7707.7	7682.9	7666.3	7590.4	7495.2	7365.4	7304.7	7180.5	6980.3	6734.6
5°	8504.2	8489.0	8433.8	8403.4	8322.0	8186.7	7979.7	7880.3	7682.9	7346.1	6905.8
7.5°	8192.2	8287.5	8363.4	8490.4	8650.5	8645.0	8471.1	8367.5	8146.7	7702.2	7096.3
10°	6987.2	7064.5	7188.7	7477.2	8065.2	8584.2	8788.5	8714.0	8537.3	8029.4	7279.8
12.5°	6751.2	6742.9	6765.0	6849.2	7157.0	7896.8	8734.7	8885.2	8849.3	8328.9	7453.8
15°	6876.8	6867.1	6864.4	6893.3	6967.9	7279.8	8330.3	8762.3	9039.8	8606.3	7601.5
17.5°	7228.8	7187.4	7165.3	7141.8	7119.7	7197.0	7844.4	8418.6	9068.7	8849.3	7724.3
20°	7832.0	7763.0	7681.5	7549.0	7424.8	7386.1	7640.1	8065.2	8965.2	9034.2	7804.4
22.5°	8589.8	8501.4	8360.6	8119.1	7866.5	7720.2	7740.9	7953.4	8810.6	9235.8	7841.6
25°	9441.4	9328.2	9140.5	8805.1	8433.8	8174.3	8039.0	8113.6	8740.2	9471.8	7884.4
27.5°	10353.8	10228.2	9982.5	9525.6	9104.6	8754.0	8478.0	8468.3	8860.3	9781.0	7953.4
30°	11257.9	11238.6	10918.4	10435.3	9877.6	9451.1	9053.6	9002.5	9195.7	10208.9	8090.1
32.5°	12464.3	12319.4	11927.4	11430.5	10787.2	10275.1	9804.5	9685.7	9710.6	10707.2	8301.3
35°	13985.5	13826.7	13274.6	12588.6	11869.4	11264.8	10744.5	10583.0	10522.2	11523.0	8657.4
37.5°	14968.3	14965.5	14619.0	13920.6	13149.0	12482.3	11916.4	11727.2	11604.4	12508.5	9209.5
40°	14994.5	15059.4	15104.9	15098.0	14548.6	13934.4	13431.9	13198.7	12912.9	13825.3	9923.2
42.5°	14189.7	14356.8	14758.4	15440.3	15766.1	15521.8	15098.0	14868.9	14443.7	15234.7	10792.8
45°	13102.1	13218.0	13920.6	15176.7	16425.9	17095.3	16772.3	16362.4	15802.0	16704.7	11572.6
47.5°	12614.8	12635.5	13089.6	14468.6	16475.6	18384.6	18580.6	17913.9	17036.0	17889.0	12182.8
50°	11158.6	11195.8	11822.5	13241.5	15893.1	18993.3	20397.1	19764.9	18381.8	18801.4	12405.0
52.5°	8410.3	8462.8	9257.8	11224.8	14291.9	18733.8	21697.3	21544.1	19856.0	19247.3	12417.4
55°	4962.3	5031.3	5790.5	7555.9	11241.4	17082.9	21794.0	22357.1	21019.6	19510.9	12398.1
57.5°	2317.6	2365.9	2800.7	3892.5	6991.3	13501.0	20339.1	21799.5	21661.4	19650.3	12534.7
60°	1231.3	1245.1	1350.0	1685.4	3159.6	8560.8	17499.8	19684.8	21076.2	19843.6	12701.8
62.5°	941.4	945.5	940.0	980.0	1327.9	3800.0	13227.7	16182.9	18720.0	19698.6	12516.8
65°	815.8	822.7	784.0	774.4	851.7	1355.5	7858.2	11535.4	14710.1	17742.7	11256.6
67.5°	731.6	734.3	687.4	647.4	661.2	733.0	3100.2	6315.0	9736.8	13005.4	8159.1
70°	673.6	670.8	619.8	556.3	538.3	501.1	985.6	2314.8	4653.1	6595.2	3794.5
72.5°	596.3	597.7	572.8	490.0	447.2	350.6	456.9	675.0	1388.6	1797.2	888.9
75°	528.7	521.8	491.4	438.9	368.5	230.5	226.4	300.9	427.9	425.1	191.9
77.5°	382.4	375.4	385.1	360.3	283.0	149.1	113.2	144.9	173.9	168.4	53.8
80°	280.2	276.1	248.5	299.5	249.8	102.1	70.4	77.3	89.7	75.9	16.6
82.5°	191.9	190.5	175.3	165.6	142.2	62.1	44.2	48.3	58.0	42.8	8.3
85°	30.4	34.5	127.0	100.8	84.2	27.6	30.4	33.1	38.6	23.5	2.8
87.5°	0.0	0.0	59.4	52.5	16.6	11.0	17.9	19.3	19.3	12.4	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°	6584.2	6584.2	6584.2	6584.2	6584.2	6584.2	6584.2	6584.2	6584.2	6584.2	6584.2
2.5°	6609.0	6471.0	6215.6	5952.0	5707.6	5416.4	5216.3	5065.8	4891.9	4844.9	4947.1
5°	6654.5	6393.7	5844.3	5246.6	4684.8	4062.3	3586.1	3209.3	2868.3	2752.4	2857.3
7.5°	6726.3	6338.5	5442.6	4458.5	3481.2	2509.4	1844.1	1406.6	1127.7	1044.9	1089.1
10°	6798.1	6258.4	4977.5	3525.4	2189.2	1221.6	795.1	634.9	575.6	563.2	570.1
12.5°	6857.5	6150.7	4410.1	2506.7	1170.5	654.3	520.4	494.2	485.9	485.9	488.6
15°	6893.3	5987.9	3737.9	1594.3	673.6	494.2	454.1	445.8	445.8	447.2	450.0
17.5°	6889.2	5780.8	3002.2	964.8	503.8	437.6	414.1	407.2	405.8	408.6	410.0
20°	6838.1	5510.3	2263.7	636.3	438.9	398.9	375.4	363.0	361.6	364.4	367.2
22.5°	6741.5	5176.2	1619.1	490.0	396.2	361.6	332.7	321.6	321.6	324.4	327.1
25°	6624.2	4767.6	1107.0	415.5	357.5	321.6	294.0	284.3	287.1	294.0	295.4
27.5°	6477.9	4308.0	752.3	356.1	310.6	281.6	260.9	254.0	260.9	270.5	273.3
30°	6352.3	3829.0	536.9	307.8	263.6	242.9	230.5	230.5	240.2	258.1	262.3
32.5°	6255.6	3365.2	414.1	271.9	229.1	211.2	204.3	211.2	226.4	244.3	248.5
35°	6243.2	2982.9	350.6	242.9	204.3	186.3	183.6	196.0	211.2	225.0	227.8
37.5°	6338.5	2629.5	316.1	219.5	182.2	165.6	162.9	178.1	193.2	209.8	214.0
40°	6519.3	2352.1	291.2	197.4	164.3	146.3	140.8	151.8	172.5	194.6	200.1
42.5°	6753.9	2122.9	263.6	175.3	146.3	121.5	114.6	127.0	149.1	172.5	179.4
45°	6977.5	1925.6	233.3	150.5	122.8	93.9	91.1	107.7	118.7	142.2	147.7
47.5°	7100.4	1751.6	207.0	122.8	95.2	75.9	75.9	80.1	91.1	118.7	124.2
50°	7059.0	1612.2	179.4	91.1	66.3	58.0	58.0	56.6	73.2	95.2	99.4
52.5°	6976.2	1532.2	154.6	70.4	45.6	41.4	37.3	41.4	51.1	60.7	62.1
55°	6963.7	1518.4	129.8	56.6	31.7	27.6	20.7	20.7	20.7	19.3	16.6
57.5°	7060.4	1540.4	109.0	45.6	23.5	17.9	11.0	0.0	0.0	0.0	0.0
60°	7159.7	1563.9	93.9	31.7	16.6	9.7	1.4	0.0	0.0	0.0	0.0
62.5°	6994.1	1511.5	78.7	19.3	12.4	4.1	0.0	0.0	0.0	0.0	0.0
65°	6143.8	1286.5	62.1	13.8	8.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4370.1	861.3	41.4	8.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	1994.6	360.3	26.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	426.5	111.8	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	87.0	81.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	27.6	128.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.6	92.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.8	13.8	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)