

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: P191734

Luminaire Tested: **GAN-AF-06-LED-U-AFL-7050-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191734
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-06-LED-U-AFL-7050-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA 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: 29144 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 333
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

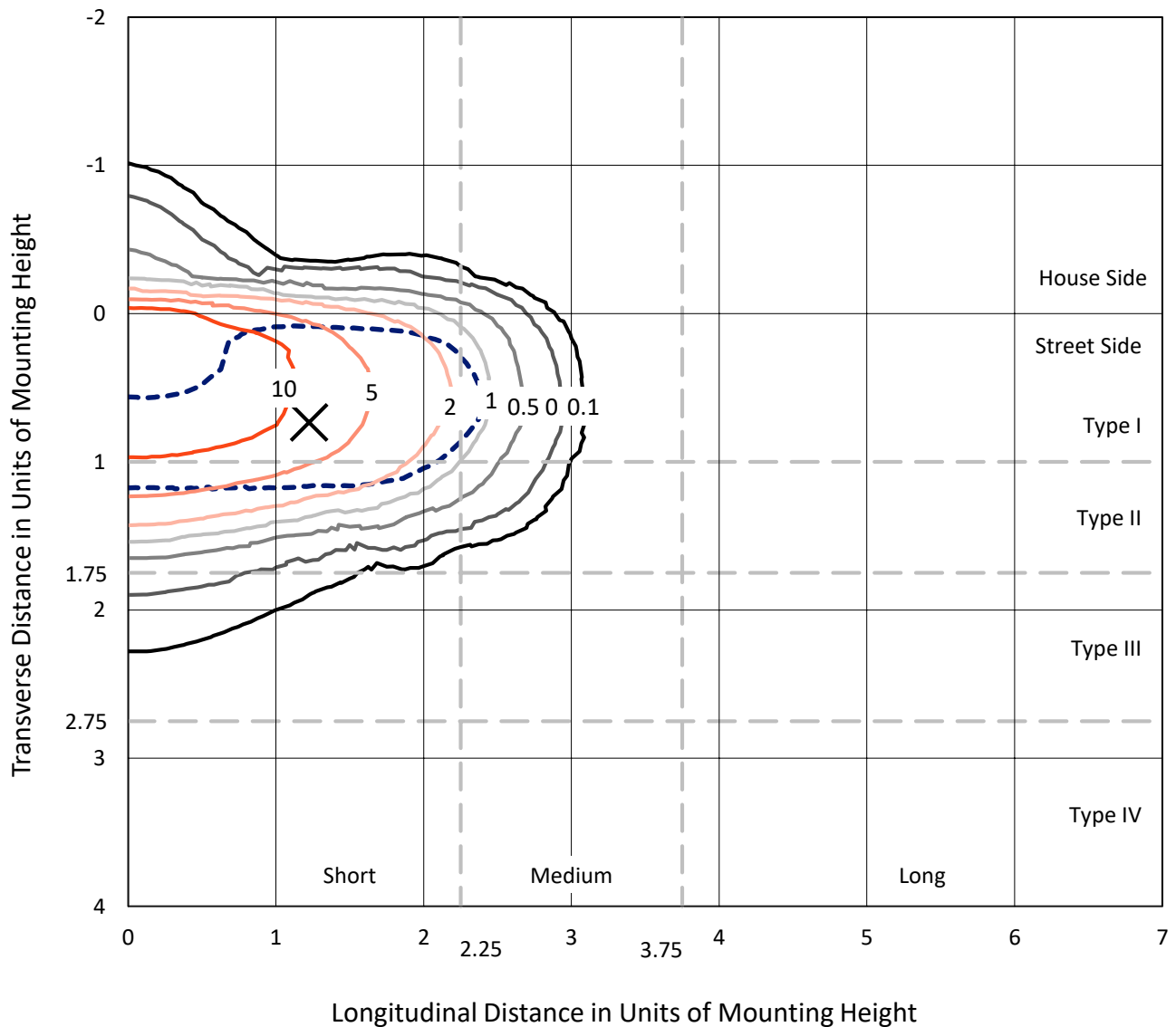


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

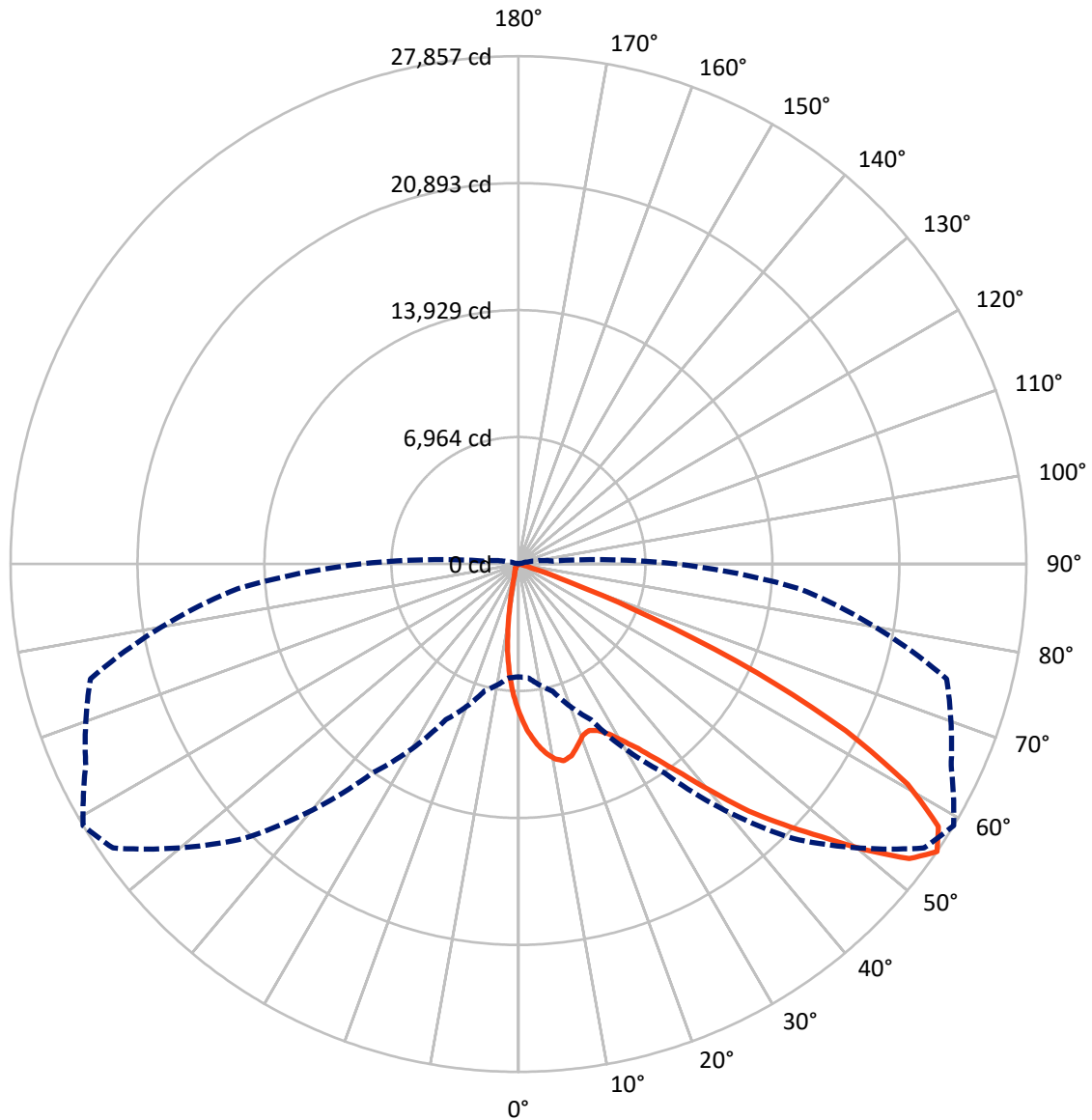


Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - Full Cutoff

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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	1627.9	0.0	1627.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	27516.1	0.0	27516.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	29144.0	0.0	29144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.2	2.4
10°-20°	1645.3	5.6
20°-30°	2799.6	9.6
30°-40°	4814.7	16.5
40°-50°	7433.4	25.5
50°-60°	7472.9	25.6
60°-70°	3832.2	13.1
70°-80°	415.3	1.4
80°-90°	43.4	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°	29144.0	100.0
0°-180°	29144.0	100.0

Coefficient of Utilization



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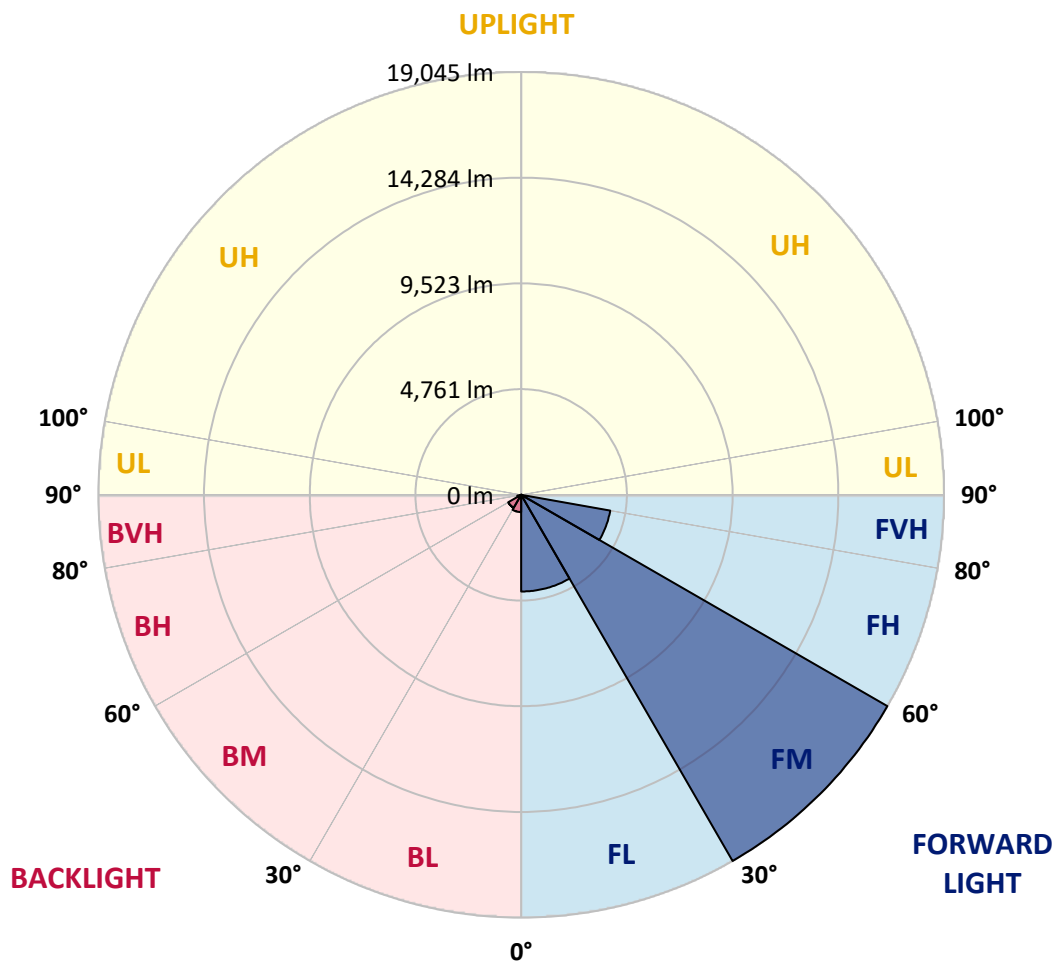
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4355.1	14.9			
FM (30°-60°)	19045.5	65.3			
FH (60°-80°)	4073.1	14.0			G2/5000
FVH (80°-90°)	42.5	0.1			G1/100
BL (0°-30°)	777.0	2.7	B2/1000		
BM (30°-60°)	675.6	2.3	B1/1000		
BH (60°-80°)	174.4	0.6	B1/500		G1/500
BVH (80°-90°)	0.9	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°	8203.9	8203.9	8203.9	8203.9	8203.9	8203.9	8203.9	8203.9	8203.9	8203.9	8203.9
2.5°	9707.1	9603.9	9573.0	9552.3	9457.7	9339.1	9177.4	9101.7	8946.9	8697.5	8391.4
5°	10596.3	10577.4	10508.6	10470.8	10369.3	10200.7	9942.8	9818.9	9573.0	9153.3	8604.7
7.5°	10207.6	10326.3	10420.9	10579.1	10778.6	10771.7	10555.0	10426.0	10150.9	9597.1	8842.0
10°	8706.1	8802.5	8957.2	9316.7	10049.4	10696.1	10950.6	10857.7	10637.6	10004.7	9070.8
12.5°	8412.0	8401.7	8429.2	8534.2	8917.7	9839.6	10883.5	11071.0	11026.3	10377.9	9287.5
15°	8568.5	8556.5	8553.1	8589.2	8682.1	9070.8	10379.6	10917.9	11263.6	10723.6	9471.5
17.5°	9007.1	8955.5	8928.0	8898.8	8871.3	8967.6	9774.2	10489.7	11299.8	11026.3	9624.6
20°	9758.7	9672.7	9571.3	9406.1	9251.4	9203.2	9519.7	10049.4	11170.8	11256.8	9724.3
22.5°	10702.9	10592.9	10417.4	10116.5	9801.7	9619.4	9645.2	9910.1	10978.1	11507.9	9770.8
25°	11764.1	11623.1	11389.2	10971.3	10508.6	10185.3	10016.7	10109.6	10890.4	11802.0	9824.1
27.5°	12901.0	12744.5	12438.3	11869.0	11344.5	10907.6	10563.6	10551.6	11040.0	12187.2	9910.1
30°	14027.5	14003.4	13604.4	13002.5	12307.6	11776.2	11280.8	11217.2	11458.0	12720.4	10080.3
32.5°	15530.7	15350.1	14861.7	14242.5	13441.0	12802.9	12216.5	12068.5	12099.5	13341.3	10343.5
35°	17426.0	17228.3	16540.3	15685.5	14789.4	14036.1	13387.7	13186.5	13110.8	14357.7	10787.2
37.5°	18650.6	18647.2	18215.5	17345.2	16383.8	15553.1	14847.9	14612.3	14459.2	15585.7	11475.2
40°	18683.3	18764.1	18820.9	18812.3	18127.8	17362.4	16736.4	16445.7	16089.7	17226.5	12364.4
42.5°	17680.6	17888.7	18389.2	19238.8	19644.7	19340.3	18812.3	18526.8	17997.1	18982.6	13447.9
45°	16325.3	16469.8	17345.2	18910.3	20466.8	21301.0	20898.5	20387.7	19689.4	20814.2	14419.7
47.5°	15718.2	15744.0	16309.8	18028.0	20528.7	22907.4	23151.6	22320.9	21227.0	22289.9	15179.9
50°	13903.7	13950.1	14731.0	16499.0	19802.9	23665.8	25415.0	24627.3	22903.9	23426.8	15456.8
52.5°	10479.4	10544.7	11535.4	13986.2	17807.9	23342.5	27035.1	26844.2	24740.8	23982.3	15472.2
55°	6183.0	6269.0	7215.0	9414.7	14006.9	21285.5	27155.5	27857.2	26190.7	24310.8	15448.2
57.5°	2887.7	2947.9	3489.7	4850.1	8711.3	16822.4	25342.8	27162.4	26990.4	24484.5	15618.4
60°	1534.2	1551.4	1682.1	2100.0	3936.9	10666.8	21804.9	24527.5	26261.2	24725.3	15826.5
62.5°	1173.0	1178.1	1171.3	1221.1	1654.5	4734.9	16481.8	20164.1	23325.3	24544.7	15596.1
65°	1016.5	1025.1	976.9	964.9	1061.2	1688.9	9791.4	14373.2	18329.0	22107.6	14025.8
67.5°	911.5	915.0	856.5	806.6	823.8	913.3	3862.9	7868.5	12132.2	16204.9	10166.3
70°	839.3	835.9	772.2	693.1	670.8	624.3	1228.0	2884.3	5797.8	8217.7	4728.0
72.5°	743.0	744.7	713.8	610.6	557.2	436.9	569.3	841.0	1730.2	2239.3	1107.6
75°	658.7	650.1	612.3	546.9	459.2	287.2	282.1	374.9	533.2	529.7	239.1
77.5°	476.4	467.8	479.9	448.9	352.6	185.7	141.0	180.6	216.7	209.8	67.1
80°	349.1	344.0	309.6	373.2	311.3	127.3	87.7	96.3	111.8	94.6	20.6
82.5°	239.1	237.3	218.4	206.4	177.1	77.4	55.0	60.2	72.2	53.3	10.3
85°	37.8	43.0	158.2	125.6	104.9	34.4	37.8	41.3	48.2	29.2	3.4
87.5°	0.0	0.0	74.0	65.4	20.6	13.8	22.4	24.1	24.1	15.5	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°	8203.9	8203.9	8203.9	8203.9	8203.9	8203.9	8203.9	8203.9	8203.9	8203.9	8203.9
2.5°	8234.9	8062.9	7744.7	7416.2	7111.8	6748.9	6499.5	6312.0	6095.3	6036.9	6164.1
5°	8291.6	7966.6	7282.1	6537.3	5837.3	5061.7	4468.3	3998.8	3574.0	3429.5	3560.2
7.5°	8381.1	7897.8	6781.6	5555.3	4337.6	3126.8	2297.8	1752.6	1405.2	1302.0	1357.0
10°	8470.5	7798.0	6202.0	4392.6	2727.8	1522.1	990.7	791.2	717.2	701.7	710.3
12.5°	8544.5	7663.9	5495.1	3123.3	1458.5	815.2	648.4	615.7	605.4	605.4	608.8
15°	8589.2	7460.9	4657.5	1986.5	839.3	615.7	565.8	555.5	555.5	557.2	560.7
17.5°	8584.0	7202.9	3740.8	1202.2	627.8	545.2	516.0	507.4	505.7	509.1	510.8
20°	8520.4	6865.8	2820.6	792.9	546.9	497.1	467.8	452.3	450.6	454.1	457.5
22.5°	8400.0	6449.6	2017.4	610.6	493.6	450.6	414.5	400.7	400.7	404.2	407.6
25°	8253.8	5940.5	1379.4	517.7	445.5	400.7	366.3	354.3	357.7	366.3	368.1
27.5°	8071.5	5367.8	937.3	443.7	387.0	350.9	325.1	316.5	325.1	337.1	340.5
30°	7915.0	4771.0	669.0	383.5	328.5	302.7	287.2	287.2	299.3	321.6	326.8
32.5°	7794.6	4193.1	516.0	338.8	285.5	263.1	254.5	263.1	282.1	304.4	309.6
35°	7779.1	3716.7	436.9	302.7	254.5	232.2	228.7	244.2	263.1	280.3	283.8
37.5°	7897.8	3276.4	393.9	273.5	227.0	206.4	202.9	221.9	240.8	261.4	266.6
40°	8123.1	2930.7	362.9	245.9	204.7	182.3	175.4	189.2	215.0	242.5	249.4
42.5°	8415.5	2645.2	328.5	218.4	182.3	151.4	142.8	158.2	185.7	215.0	223.6
45°	8694.1	2399.3	290.7	187.5	153.1	117.0	113.5	134.2	147.9	177.1	184.0
47.5°	8847.2	2182.6	258.0	153.1	118.7	94.6	94.6	99.8	113.5	147.9	154.8
50°	8795.6	2008.8	223.6	113.5	82.6	72.2	72.2	70.5	91.2	118.7	123.8
52.5°	8692.4	1909.1	192.6	87.7	56.8	51.6	46.4	51.6	63.6	75.7	77.4
55°	8676.9	1891.9	161.7	70.5	39.6	34.4	25.8	25.8	25.8	24.1	20.6
57.5°	8797.3	1919.4	135.9	56.8	29.2	22.4	13.8	0.0	0.0	0.0	0.0
60°	8921.1	1948.6	117.0	39.6	20.6	12.0	1.7	0.0	0.0	0.0	0.0
62.5°	8714.7	1883.3	98.0	24.1	15.5	5.2	0.0	0.0	0.0	0.0	0.0
65°	7655.3	1602.9	77.4	17.2	10.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5445.2	1073.2	51.6	10.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	2485.3	448.9	32.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	531.4	139.3	22.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	108.4	101.5	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	34.4	160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	20.6	115.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.4	17.2	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)