

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: P192665

Luminaire Tested: **GAN-AF-07-LED-U-AFL-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192665
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-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA 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: 26931.3 lumens
Efficiency: N/A
Efficacy: 91.3 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): 295
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

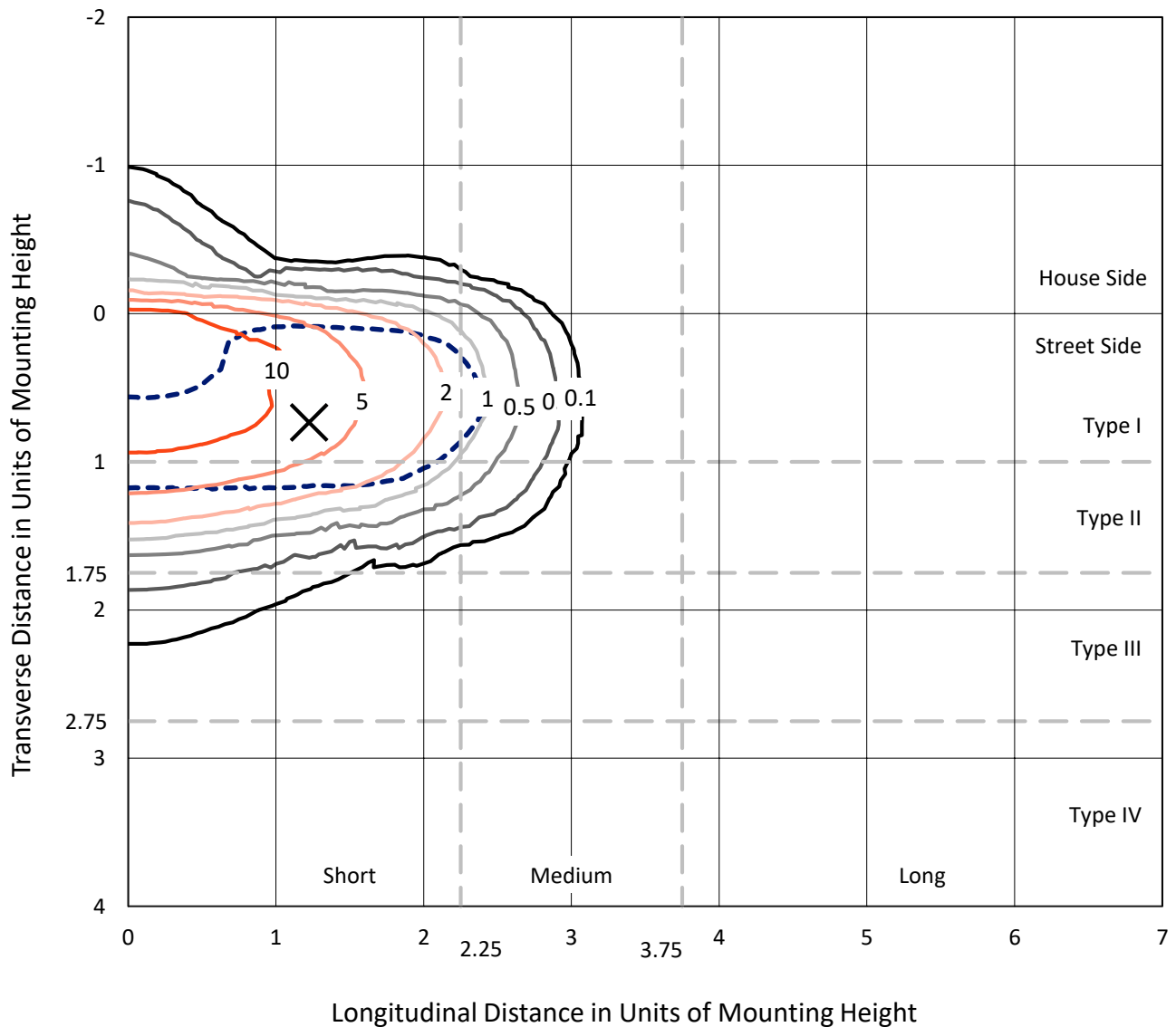


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

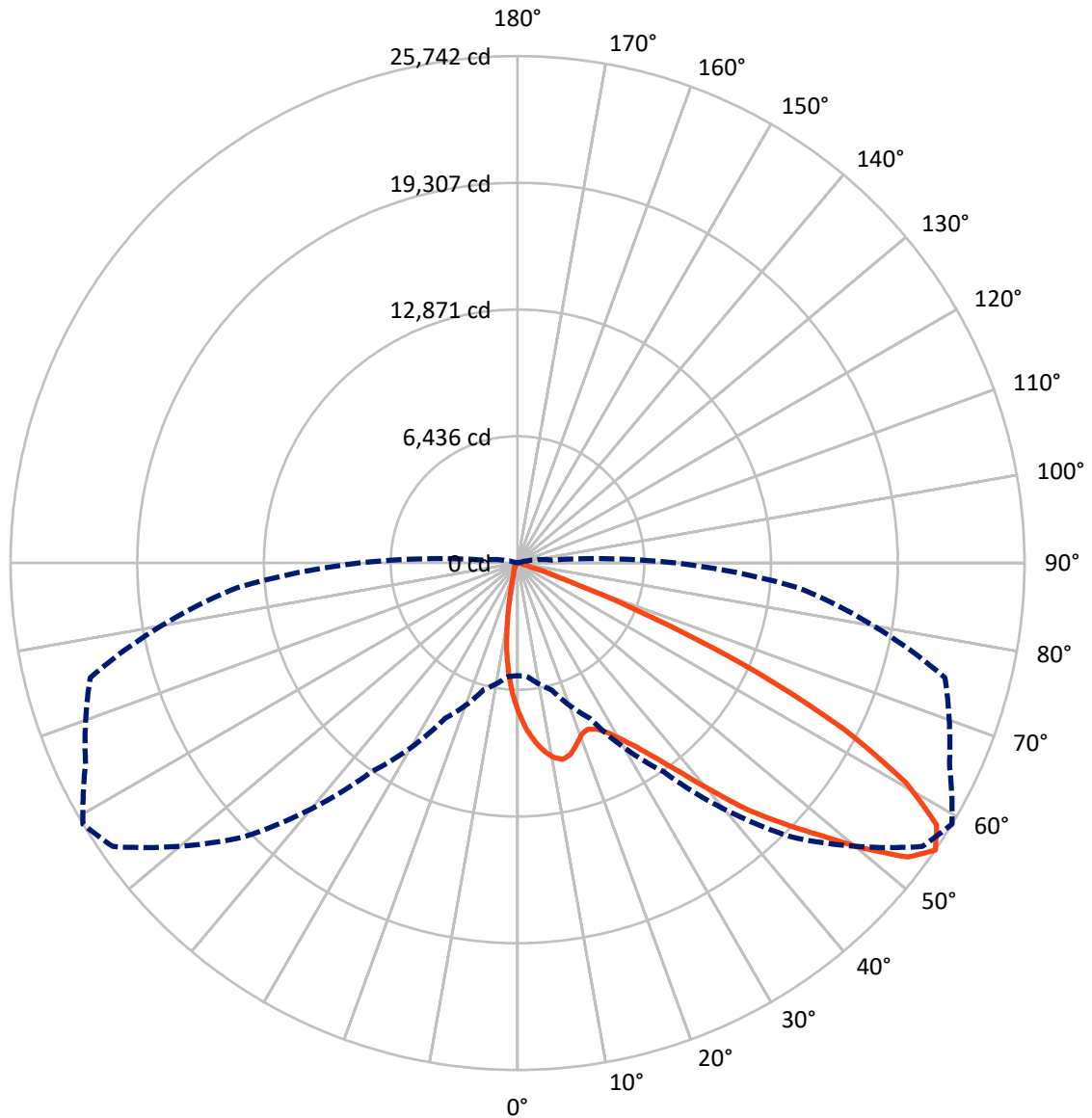


Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - Full Cutoff

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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	1504.3	0.0	1504.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	25427.1	0.0	25427.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	26931.3	0.0	26931.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.0	2.4
10°-20°	1520.4	5.6
20°-30°	2587.1	9.6
30°-40°	4449.2	16.5
40°-50°	6869.0	25.5
50°-60°	6905.6	25.6
60°-70°	3541.2	13.1
70°-80°	383.8	1.4
80°-90°	40.1	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°	26931.3	100.0
0°-180°	26931.3	100.0



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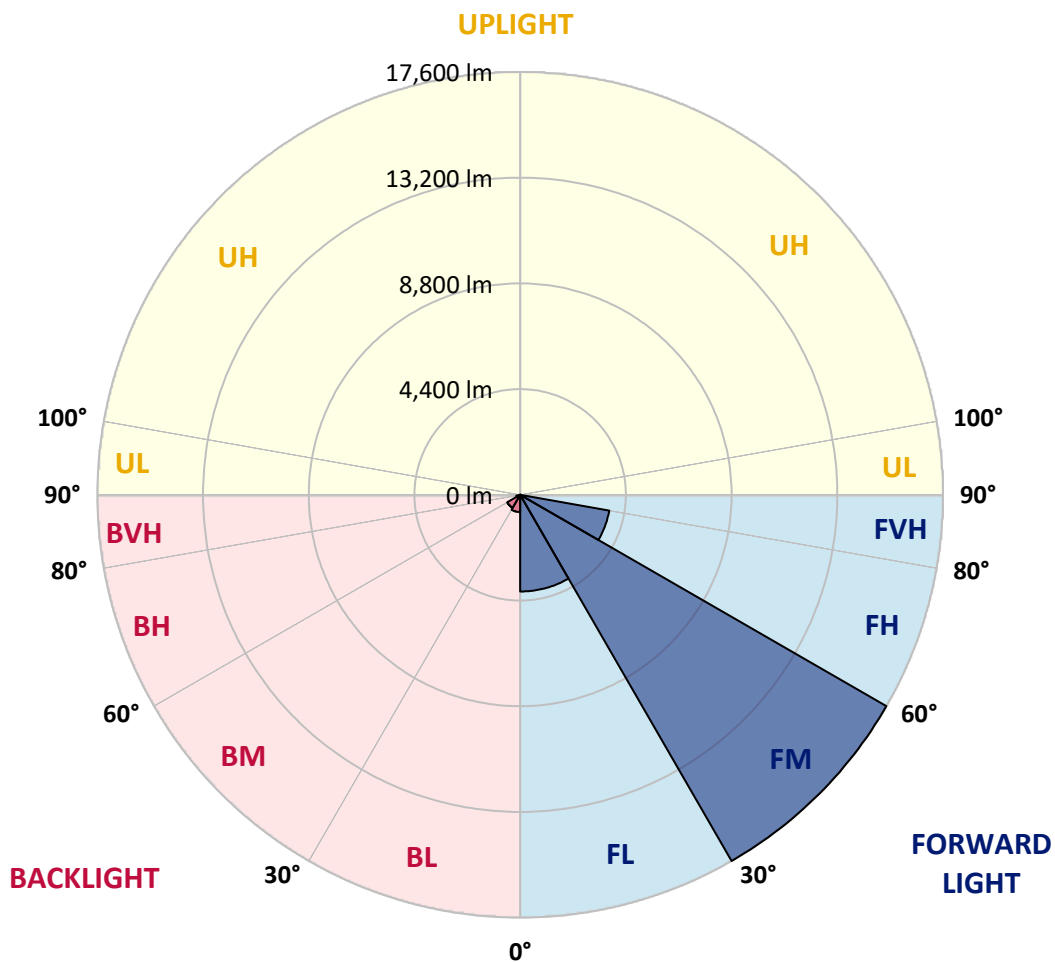
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4024.4	14.9			
FM	(30°-60°)	17599.5	65.3			
FH	(60°-80°)	3763.8	14.0			G2/5000
FVH	(80°-90°)	39.3	0.1			G1/100
BL	(0°-30°)	718.0	2.7	B2/1000		
BM	(30°-60°)	624.3	2.3	B1/1000		
BH	(60°-80°)	161.2	0.6	B1/500		G1/500
BVH	(80°-90°)	0.8	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°	7581.1	7581.1	7581.1	7581.1	7581.1	7581.1	7581.1	7581.1	7581.1	7581.1	7581.1
2.5°	8970.1	8874.8	8846.1	8827.0	8739.6	8630.1	8480.6	8410.7	8267.6	8037.2	7754.3
5°	9791.9	9774.4	9710.8	9675.8	9582.0	9426.3	9187.8	9073.4	8846.1	8458.5	7951.4
7.5°	9432.7	9542.2	9629.7	9776.0	9960.3	9953.9	9753.7	9634.5	9380.2	8868.5	8170.7
10°	8045.2	8134.2	8277.2	8609.4	9286.4	9884.0	10119.3	10033.4	9829.9	9245.1	8382.1
12.5°	7773.4	7763.9	7789.3	7886.3	8240.7	9092.5	10057.2	10230.5	10189.2	9590.0	8582.4
15°	7918.0	7906.9	7903.7	7937.0	8022.9	8382.1	9591.6	10089.0	10408.5	9909.4	8752.4
17.5°	8323.3	8275.7	8250.1	8223.2	8197.7	8286.8	9032.1	9693.3	10441.8	10189.2	8893.8
20°	9017.8	8938.4	8844.5	8692.0	8549.0	8504.4	8796.9	9286.4	10322.6	10402.1	8986.0
22.5°	9890.3	9788.6	9626.5	9348.4	9057.6	8889.2	8913.0	9157.7	10144.6	10634.2	9028.9
25°	10871.0	10740.6	10524.5	10138.2	9710.8	9411.9	9256.2	9342.0	10063.6	10905.9	9078.3
27.5°	11921.5	11776.8	11494.0	10967.9	10483.2	10079.5	9761.7	9750.6	10201.9	11261.9	9157.7
30°	12962.5	12940.2	12571.6	12015.2	11373.3	10882.1	10424.3	10365.5	10588.1	11754.6	9315.0
32.5°	14351.5	14184.7	13733.4	13161.2	12420.6	11830.9	11289.0	11152.3	11180.9	12328.4	9558.2
35°	16103.0	15920.2	15284.5	14494.7	13666.5	12970.5	12371.3	12185.3	12115.4	13267.7	9968.3
37.5°	17234.7	17231.4	16832.5	16028.4	15139.8	14372.3	13720.7	13503.0	13361.5	14402.4	10603.9
40°	17264.8	17339.6	17392.0	17384.0	16751.4	16044.1	15465.6	15197.1	14868.1	15918.6	11425.7
42.5°	16338.2	16530.5	16993.0	17778.1	18153.2	17872.0	17384.0	17120.2	16630.7	17541.3	12426.9
45°	15085.9	15219.4	16028.4	17474.6	18912.9	19683.7	19311.9	18839.8	18194.6	19234.0	13324.9
47.5°	14524.8	14548.6	15071.6	16659.3	18970.1	21168.2	21393.8	20626.2	19615.5	20597.7	14027.4
50°	12848.2	12891.0	13612.5	15246.4	18299.5	21869.2	23485.4	22757.5	21165.0	21648.2	14283.3
52.5°	9683.7	9744.2	10659.6	12924.4	16455.9	21570.3	24982.5	24806.1	22862.4	22161.5	14297.5
55°	5713.6	5793.0	6667.2	8700.0	12943.4	19669.5	25093.8	25742.2	24202.2	22465.2	14275.3
57.5°	2668.4	2724.1	3224.8	4482.0	8049.9	15545.2	23418.6	25100.1	24941.2	22625.6	14432.6
60°	1417.6	1433.6	1554.3	1940.6	3638.0	9857.0	20149.5	22665.3	24267.3	22848.1	14624.9
62.5°	1084.0	1088.7	1082.3	1128.4	1529.0	4375.4	15230.5	18633.2	21554.3	22681.2	14412.0
65°	939.3	947.3	902.7	891.5	980.6	1560.8	9048.0	13282.0	16937.4	20429.2	12960.9
67.5°	842.4	845.5	791.5	745.3	761.3	843.9	3569.6	7271.2	11211.1	14974.6	9394.4
70°	775.6	772.5	713.6	640.5	619.8	576.9	1134.7	2665.3	5357.6	7593.7	4369.1
72.5°	686.5	688.3	659.6	564.3	514.9	403.7	526.1	777.2	1598.9	2069.3	1023.5
75°	608.7	600.8	565.8	505.5	424.4	265.4	260.7	346.5	492.6	489.5	220.9
77.5°	440.2	432.3	443.4	414.8	325.8	171.6	130.3	166.8	200.3	193.9	62.0
80°	322.7	317.8	286.0	344.9	287.7	117.6	81.1	89.0	103.4	87.4	19.1
82.5°	220.9	219.3	201.8	190.7	163.7	71.6	50.8	55.6	66.7	49.2	9.5
85°	35.0	39.8	146.2	116.1	96.9	31.8	35.0	38.1	44.5	27.0	3.2
87.5°	0.0	0.0	68.3	60.4	19.1	12.7	20.6	22.3	22.3	14.3	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°	7581.1	7581.1	7581.1	7581.1	7581.1	7581.1	7581.1	7581.1	7581.1	7581.1	7581.1
2.5°	7609.7	7450.7	7156.7	6853.2	6571.8	6236.5	6006.1	5832.8	5632.6	5578.6	5696.1
5°	7662.2	7361.8	6729.2	6041.1	5394.1	4677.4	4129.0	3695.1	3302.6	3169.1	3289.9
7.5°	7744.8	7298.2	6266.7	5133.5	4008.2	2889.4	2123.4	1619.5	1298.4	1203.2	1254.0
10°	7827.5	7205.9	5731.0	4059.1	2520.6	1406.6	915.5	731.1	662.7	648.5	656.4
12.5°	7895.7	7081.9	5078.0	2886.2	1347.7	753.4	599.2	569.0	559.4	559.4	562.5
15°	7937.0	6894.5	4303.8	1835.7	775.6	569.0	523.0	513.3	513.3	514.9	518.1
17.5°	7932.3	6656.1	3456.8	1110.9	580.0	503.8	476.8	468.8	467.3	470.5	472.0
20°	7873.6	6344.5	2606.5	732.7	505.5	459.3	432.3	418.0	416.4	419.5	422.8
22.5°	7762.3	5960.0	1864.3	564.3	456.1	416.4	383.1	370.3	370.3	373.4	376.6
25°	7627.2	5489.5	1274.6	478.3	411.7	370.3	338.4	327.4	330.6	338.4	340.2
27.5°	7458.7	4960.3	866.2	410.0	357.6	324.2	300.4	292.5	300.4	311.5	314.6
30°	7314.1	4408.8	618.3	354.4	303.5	279.7	265.4	265.4	276.5	297.1	302.0
32.5°	7202.8	3874.8	476.8	313.1	263.9	243.2	235.2	243.2	260.7	281.4	286.0
35°	7188.5	3434.6	403.7	279.7	235.2	214.5	211.4	225.7	243.2	259.1	262.2
37.5°	7298.2	3027.7	364.0	252.7	209.8	190.7	187.5	205.0	222.5	241.6	246.4
40°	7506.3	2708.2	335.3	227.3	189.1	168.5	162.1	174.9	198.7	224.1	230.4
42.5°	7776.5	2444.3	303.5	201.8	168.5	139.9	131.8	146.2	171.6	198.7	206.6
45°	8034.1	2217.1	268.6	173.2	141.5	108.0	104.9	124.0	136.7	163.7	170.0
47.5°	8175.5	2016.8	238.4	141.5	109.7	87.4	87.4	92.3	104.9	136.7	143.0
50°	8127.8	1856.4	206.6	104.9	76.3	66.7	66.7	65.1	84.2	109.7	114.4
52.5°	8032.4	1764.1	178.0	81.1	52.5	47.6	42.9	47.6	58.8	69.9	71.6
55°	8018.1	1748.2	149.3	65.1	36.6	31.8	23.8	23.8	23.8	22.3	19.1
57.5°	8129.4	1773.8	125.5	52.5	27.0	20.6	12.7	0.0	0.0	0.0	0.0
60°	8243.8	1800.7	108.0	36.6	19.1	11.2	1.6	0.0	0.0	0.0	0.0
62.5°	8053.1	1740.3	90.5	22.3	14.3	4.8	0.0	0.0	0.0	0.0	0.0
65°	7074.1	1481.2	71.6	15.9	9.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5031.8	991.7	47.6	9.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	2296.5	414.8	30.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	491.1	128.7	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	100.1	93.8	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	31.8	147.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.1	106.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.2	15.9	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)