

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: P268817

Luminaire Tested: **GAN-AF-09-LED-U-AFL-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268817
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-09-LED-U-AFL-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 30578 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 374
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

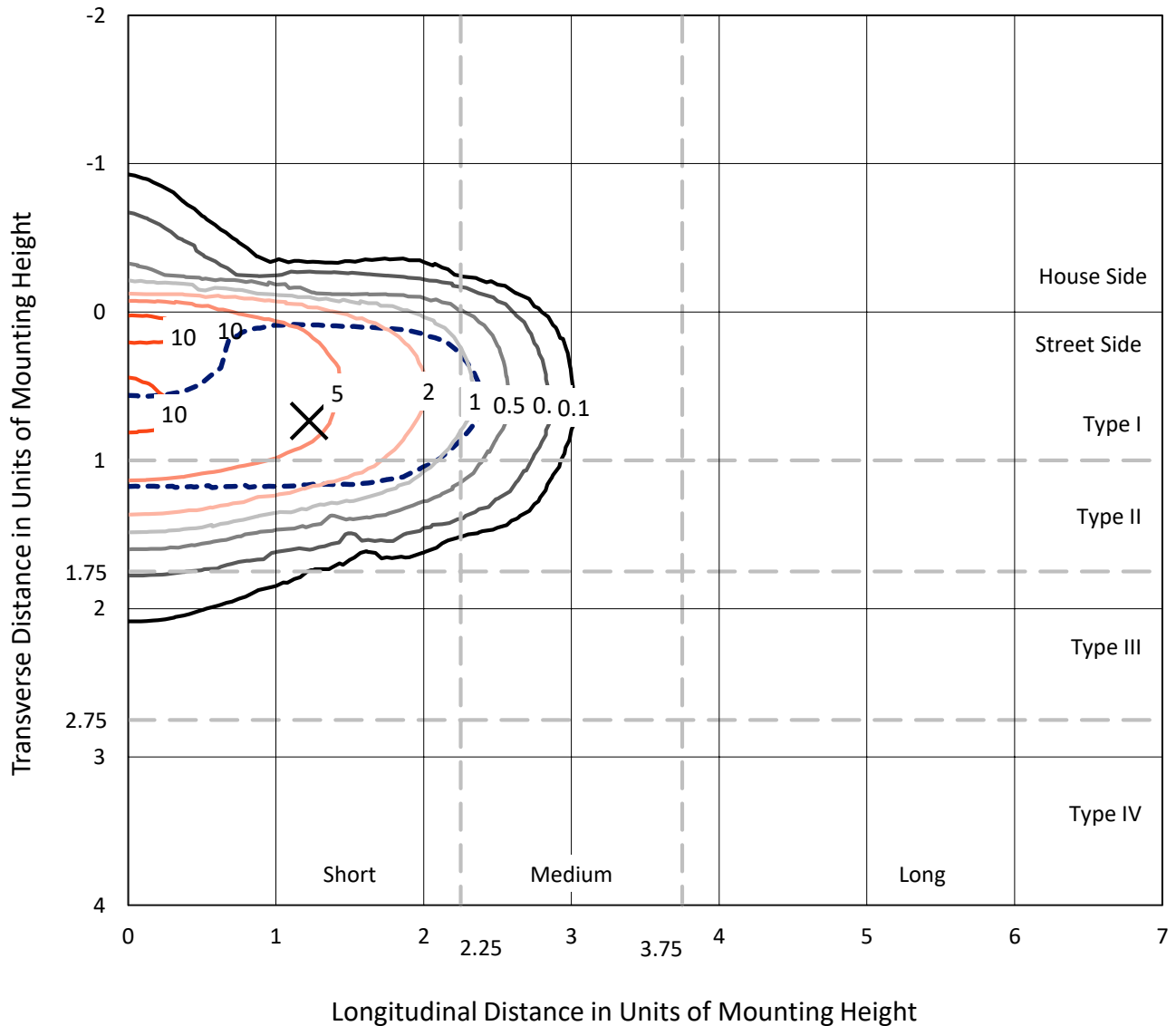


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

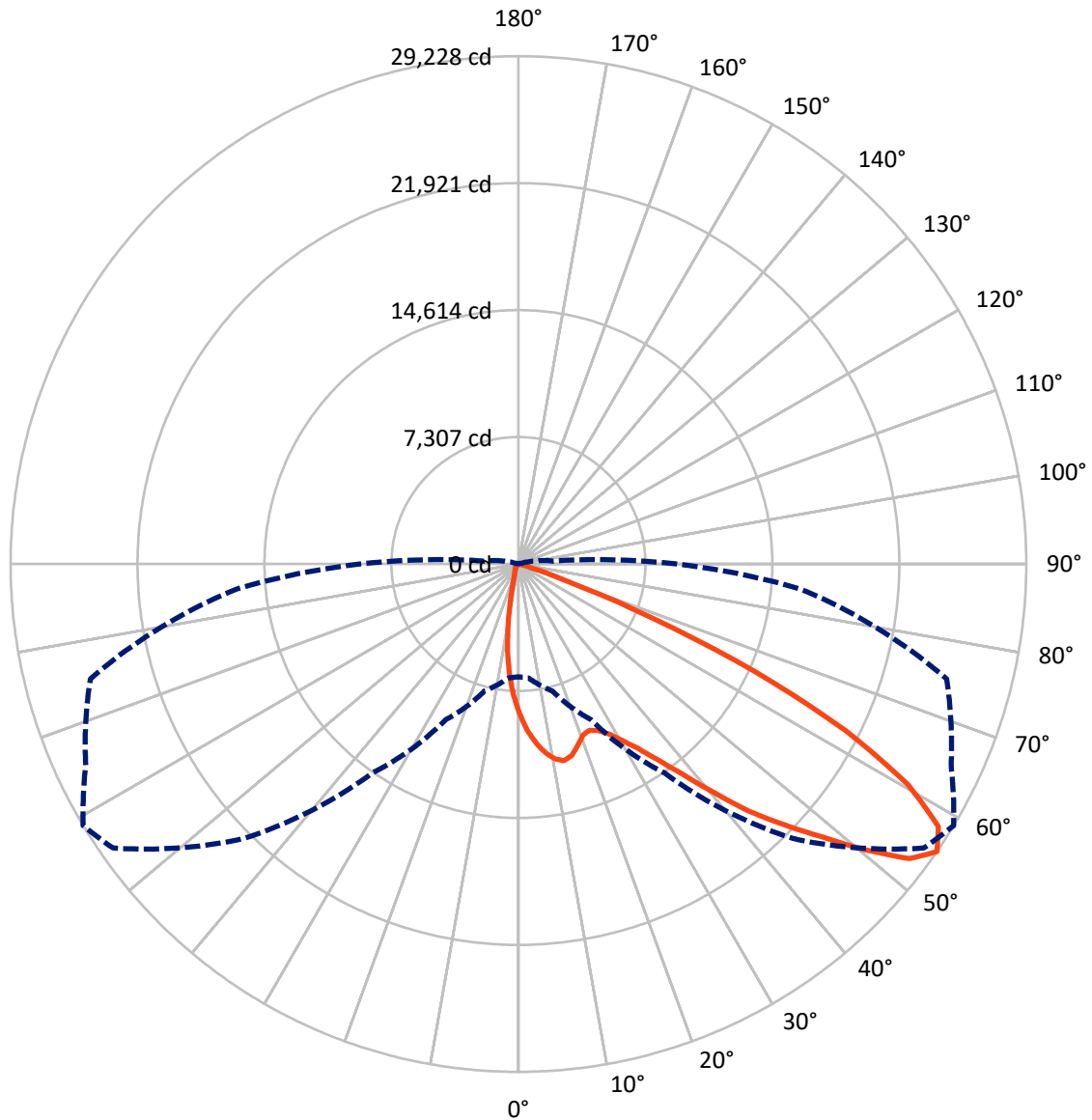


Based on 30 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - Full Cutoff

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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	1707.9	0.0	1707.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	28870.1	0.0	28870.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	30578.0	0.0	30578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.0	2.4
10°-20°	1726.2	5.6
20°-30°	2937.4	9.6
30°-40°	5051.6	16.5
40°-50°	7799.2	25.5
50°-60°	7840.6	25.6
60°-70°	4020.7	13.1
70°-80°	435.7	1.4
80°-90°	45.5	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°	30578.0	100.0
0°-180°	30578.0	100.0

Coefficient of Utilization



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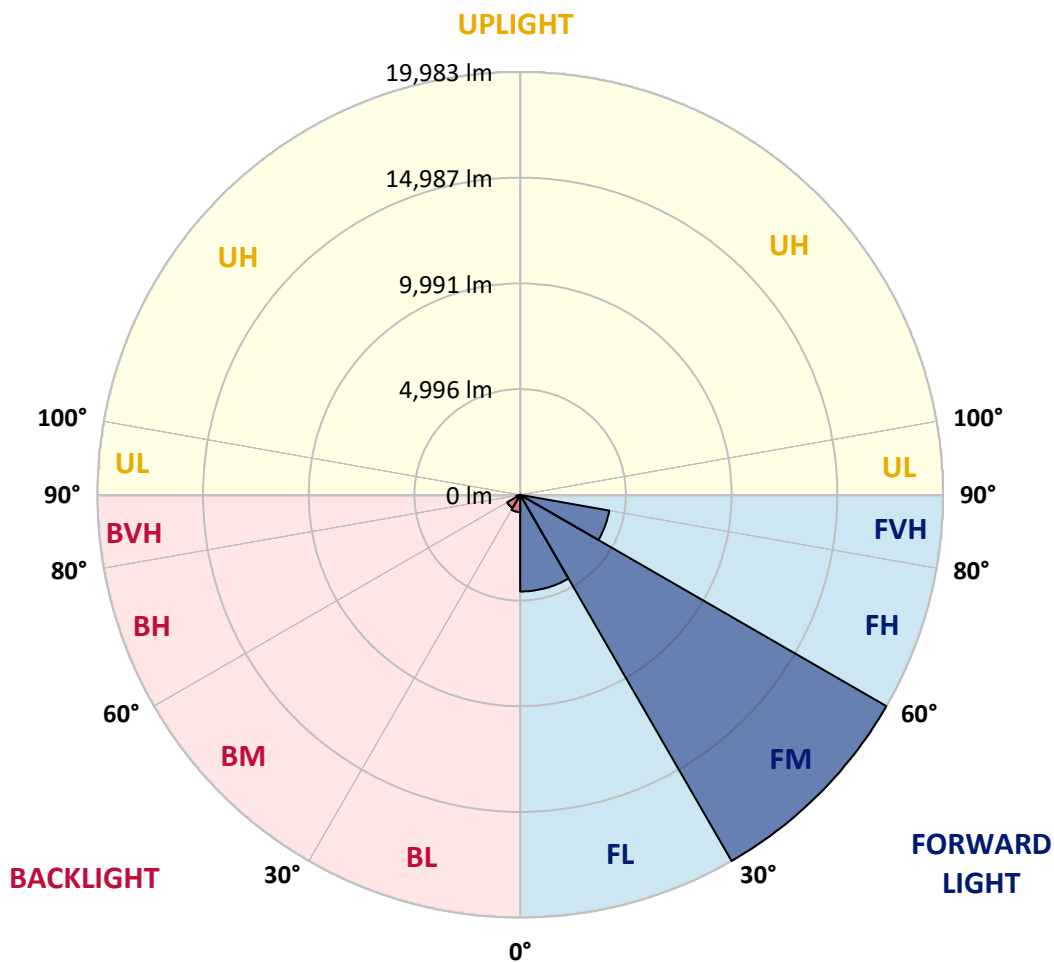
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4569.4	14.9			
FM	(30°-60°)	19982.6	65.3			
FH	(60°-80°)	4273.5	14.0			G2/5000
FVH	(80°-90°)	44.6	0.1			G1/100
BL	(0°-30°)	815.2	2.7	B2/1000		
BM	(30°-60°)	708.8	2.3	B1/1000		
BH	(60°-80°)	183.0	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°	8607.6	8607.6	8607.6	8607.6	8607.6	8607.6	8607.6	8607.6	8607.6	8607.6	8607.6
2.5°	10184.8	10076.5	10043.9	10022.4	9923.0	9798.6	9629.0	9549.6	9387.2	9125.5	8804.3
5°	11117.8	11097.9	11025.6	10986.0	10879.6	10702.6	10431.9	10302.0	10043.9	9603.7	9028.1
7.5°	10710.0	10834.4	10933.6	11099.6	11309.0	11301.8	11074.5	10939.1	10650.3	10069.3	9277.1
10°	9134.5	9235.6	9398.0	9775.1	10543.9	11222.3	11489.4	11391.9	11161.0	10497.0	9517.2
12.5°	8825.9	8815.2	8844.1	8954.0	9356.4	10323.7	11419.1	11615.8	11568.8	10888.5	9744.5
15°	8990.1	8977.5	8974.0	9011.8	9109.3	9517.2	10890.3	11455.1	11817.9	11251.2	9937.6
17.5°	9450.3	9396.2	9367.3	9336.7	9307.8	9408.8	10255.1	11005.9	11855.8	11568.8	10098.1
20°	10238.9	10148.7	10042.2	9869.0	9706.5	9656.1	9988.1	10543.9	11720.5	11810.6	10202.8
22.5°	11229.6	11114.1	10930.0	10614.3	10284.1	10092.7	10119.8	10397.7	11518.2	12074.1	10251.5
25°	12343.0	12195.0	11949.7	11511.2	11025.6	10686.4	10509.6	10607.0	11426.4	12382.6	10307.5
27.5°	13535.8	13371.6	13050.3	12453.1	11902.7	11444.3	11083.4	11070.8	11583.3	12787.0	10397.7
30°	14717.7	14692.5	14273.9	13642.3	12913.2	12355.6	11835.9	11769.1	12021.7	13346.3	10576.4
32.5°	16295.0	16105.4	15593.0	14943.3	14102.4	13433.0	12817.6	12662.4	12694.8	13997.7	10852.5
35°	18283.6	18076.0	17354.1	16457.3	15517.1	14726.8	14046.4	13835.3	13755.9	15064.2	11318.0
37.5°	19568.3	19564.7	19111.8	18198.8	17190.0	16318.4	15578.4	15331.4	15170.7	16352.7	12039.9
40°	19602.6	19687.4	19747.0	19738.0	19019.8	18216.8	17559.9	17255.0	16881.4	18074.2	12972.8
42.5°	18550.5	18768.9	19294.1	20185.5	20611.3	20292.0	19738.0	19438.5	18882.6	19916.6	14109.6
45°	17128.6	17280.2	18198.8	19840.9	21474.0	22349.1	21926.9	21390.9	20658.2	21838.4	15129.2
47.5°	16491.7	16518.7	17112.4	18915.2	21538.9	24034.5	24290.8	23419.3	22271.5	23386.7	15926.8
50°	14587.8	14636.5	15455.8	17310.9	20777.3	24830.3	26665.6	25839.0	24031.0	24579.6	16217.3
52.5°	10995.1	11063.5	12103.0	14674.4	18684.0	24491.1	28365.4	28165.1	25958.2	25162.3	16233.6
55°	6487.3	6577.5	7569.9	9878.0	14696.1	22332.9	28491.7	29228.1	27479.4	25507.1	16208.3
57.5°	3029.9	3093.0	3661.4	5088.8	9140.0	17650.1	26589.8	28499.0	28318.4	25689.3	16386.9
60°	1609.7	1627.6	1764.8	2203.4	4130.5	11191.8	22877.9	25734.5	27553.4	25942.0	16605.3
62.5°	1230.7	1236.1	1228.9	1281.3	1736.0	4967.8	17292.8	21156.3	24473.1	25752.5	16363.4
65°	1066.5	1075.5	1025.0	1012.3	1113.4	1772.0	10273.1	15080.4	19230.8	23195.5	14715.9
67.5°	956.3	960.0	898.7	846.4	864.3	958.2	4053.0	8255.8	12729.2	17002.3	10666.6
70°	880.6	876.9	810.2	727.2	703.7	655.0	1288.3	3026.2	6083.1	8622.0	4960.7
72.5°	779.5	781.3	748.8	640.6	584.6	458.3	597.4	882.5	1815.4	2349.4	1162.0
75°	691.2	682.2	642.4	573.8	481.9	301.3	295.9	393.4	559.5	555.8	250.8
77.5°	499.8	490.8	503.5	471.0	369.9	194.9	148.0	189.5	227.5	220.2	70.3
80°	366.2	360.8	324.7	391.7	326.7	133.6	92.0	101.1	117.3	99.3	21.6
82.5°	250.8	249.0	229.2	216.5	185.9	81.1	57.8	63.2	75.7	56.0	10.8
85°	39.6	45.2	165.9	131.7	110.1	36.1	39.6	43.3	50.6	30.7	3.7
87.5°	0.0	0.0	77.7	68.6	21.6	14.5	23.4	25.2	25.2	16.2	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°	8607.6	8607.6	8607.6	8607.6	8607.6	8607.6	8607.6	8607.6	8607.6	8607.6	8607.6
2.5°	8640.1	8459.7	8125.8	7781.2	7461.7	7081.0	6819.4	6622.7	6395.3	6333.9	6467.4
5°	8699.6	8358.5	7640.4	6859.0	6124.6	5310.7	4688.2	4195.5	3749.9	3598.3	3735.4
7.5°	8793.5	8286.4	7115.2	5828.7	4551.1	3280.6	2410.8	1838.8	1474.3	1366.1	1423.8
10°	8887.3	8181.8	6507.1	4608.8	2862.0	1596.9	1039.3	830.0	752.5	736.3	745.2
12.5°	8964.9	8041.0	5765.5	3277.0	1530.3	855.4	680.2	646.1	635.2	635.2	638.9
15°	9011.8	7828.1	4886.7	2084.2	880.6	646.1	593.7	582.9	582.9	584.6	588.3
17.5°	9006.3	7557.4	3924.9	1261.4	658.6	572.0	541.4	532.3	530.4	534.1	536.0
20°	8939.7	7203.7	2959.5	831.9	573.8	521.5	490.8	474.6	472.8	476.5	480.1
22.5°	8813.4	6767.0	2116.8	640.6	518.0	472.8	434.9	420.4	420.4	424.1	427.7
25°	8659.9	6232.9	1447.2	543.1	467.4	420.4	384.4	371.7	375.3	384.4	386.2
27.5°	8468.6	5632.0	983.5	465.6	406.0	368.1	341.0	332.1	341.0	353.8	357.3
30°	8304.4	5005.7	701.9	402.4	344.7	317.6	301.3	301.3	314.0	337.5	342.9
32.5°	8178.1	4399.4	541.4	355.5	299.6	276.0	267.1	276.0	295.9	319.3	324.7
35°	8161.9	3899.6	458.3	317.6	267.1	243.6	239.9	256.2	276.0	294.1	297.8
37.5°	8286.4	3437.6	413.2	286.9	238.2	216.5	213.0	232.8	252.7	274.3	279.7
40°	8522.8	3074.9	380.7	258.1	214.8	191.2	184.1	198.4	225.6	254.4	261.6
42.5°	8829.6	2775.4	344.7	229.2	191.2	158.8	149.7	165.9	194.9	225.6	234.5
45°	9121.8	2517.3	305.0	196.6	160.5	122.7	119.0	140.8	155.1	185.9	193.0
47.5°	9282.5	2290.0	270.7	160.5	124.5	99.3	99.3	104.7	119.0	155.1	162.5
50°	9228.4	2107.8	234.5	119.0	86.6	75.7	75.7	74.0	95.6	124.5	130.0
52.5°	9120.1	2003.0	202.1	92.0	59.6	54.2	48.7	54.2	66.7	79.4	81.1
55°	9103.9	1985.0	169.6	74.0	41.5	36.1	27.0	27.0	27.0	25.2	21.6
57.5°	9230.2	2013.9	142.6	59.6	30.7	23.4	14.5	0.0	0.0	0.0	0.0
60°	9360.1	2044.5	122.7	41.5	21.6	12.7	1.7	0.0	0.0	0.0	0.0
62.5°	9143.6	1975.9	102.9	25.2	16.2	5.4	0.0	0.0	0.0	0.0	0.0
65°	8031.9	1681.8	81.1	18.1	10.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5713.1	1126.0	54.2	10.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	2607.5	471.0	34.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	557.6	146.2	23.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	113.6	106.4	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	36.1	167.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	21.6	120.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.7	18.1	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)