

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: P268499

Luminaire Tested: **GAN-AF-05-LED-U-AFL-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268499
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-05-LED-U-AFL-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 23211 lumens
Efficiency: N/A
Efficacy: 72.5 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): 320
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

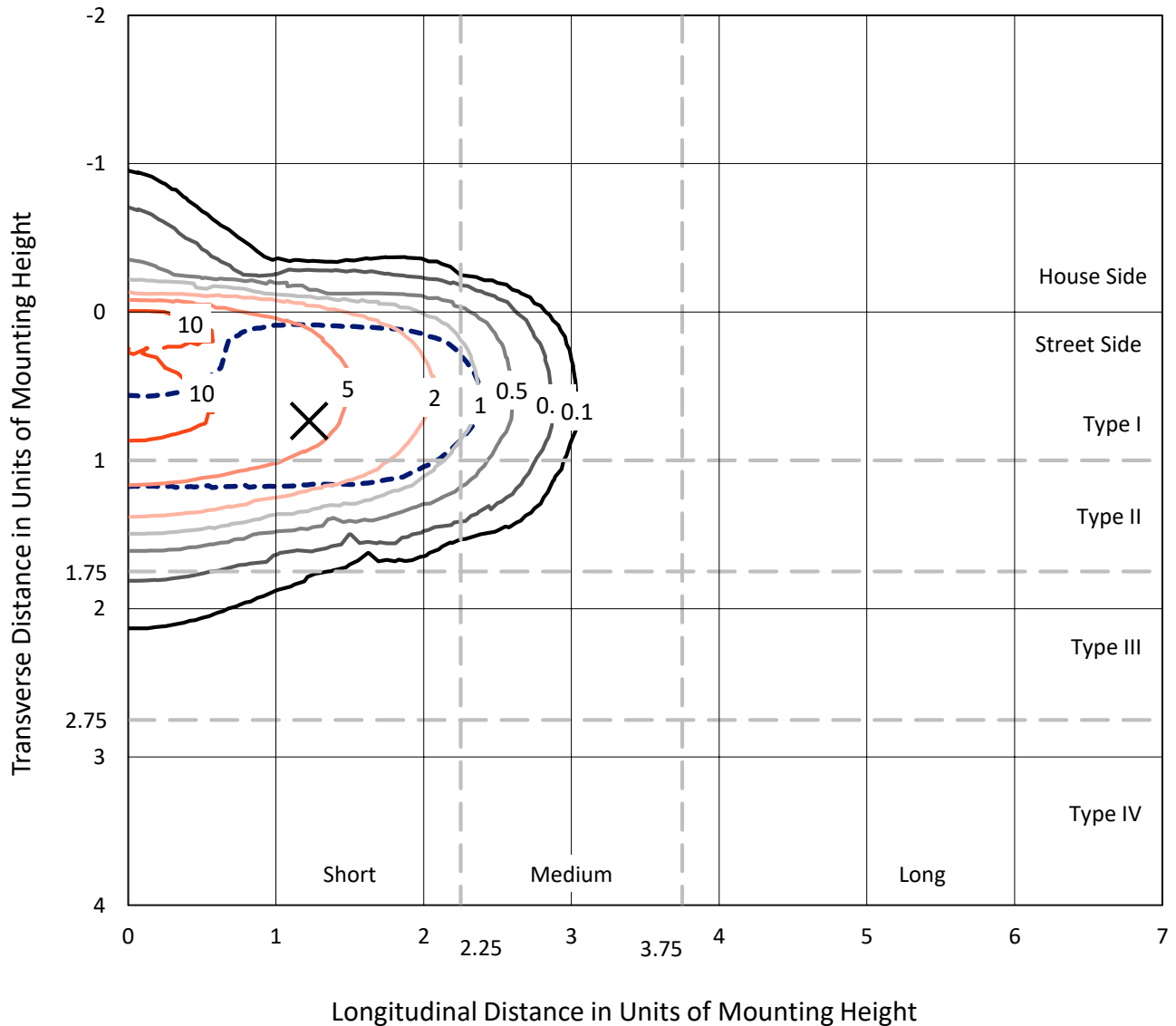


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

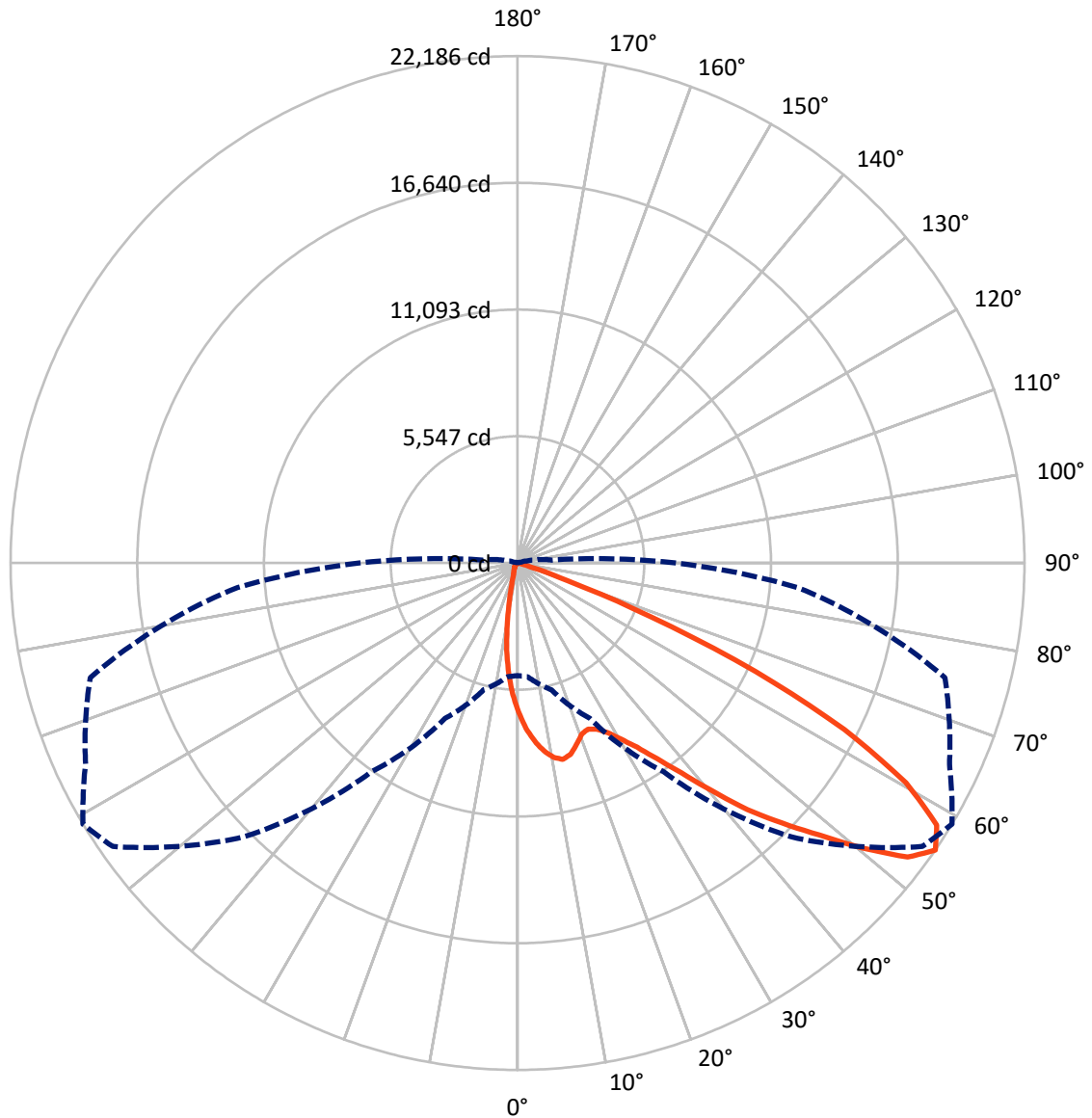


Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - Full Cutoff

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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	1296.5	0.0	1296.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	21914.6	0.0	21914.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	23211.0	0.0	23211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.3	2.4
10°-20°	1310.3	5.6
20°-30°	2229.7	9.6
30°-40°	3834.6	16.5
40°-50°	5920.2	25.5
50°-60°	5951.6	25.6
60°-70°	3052.0	13.1
70°-80°	330.8	1.4
80°-90°	34.6	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°	23211.0	100.0
0°-180°	23211.0	100.0

Coefficient of Utilization



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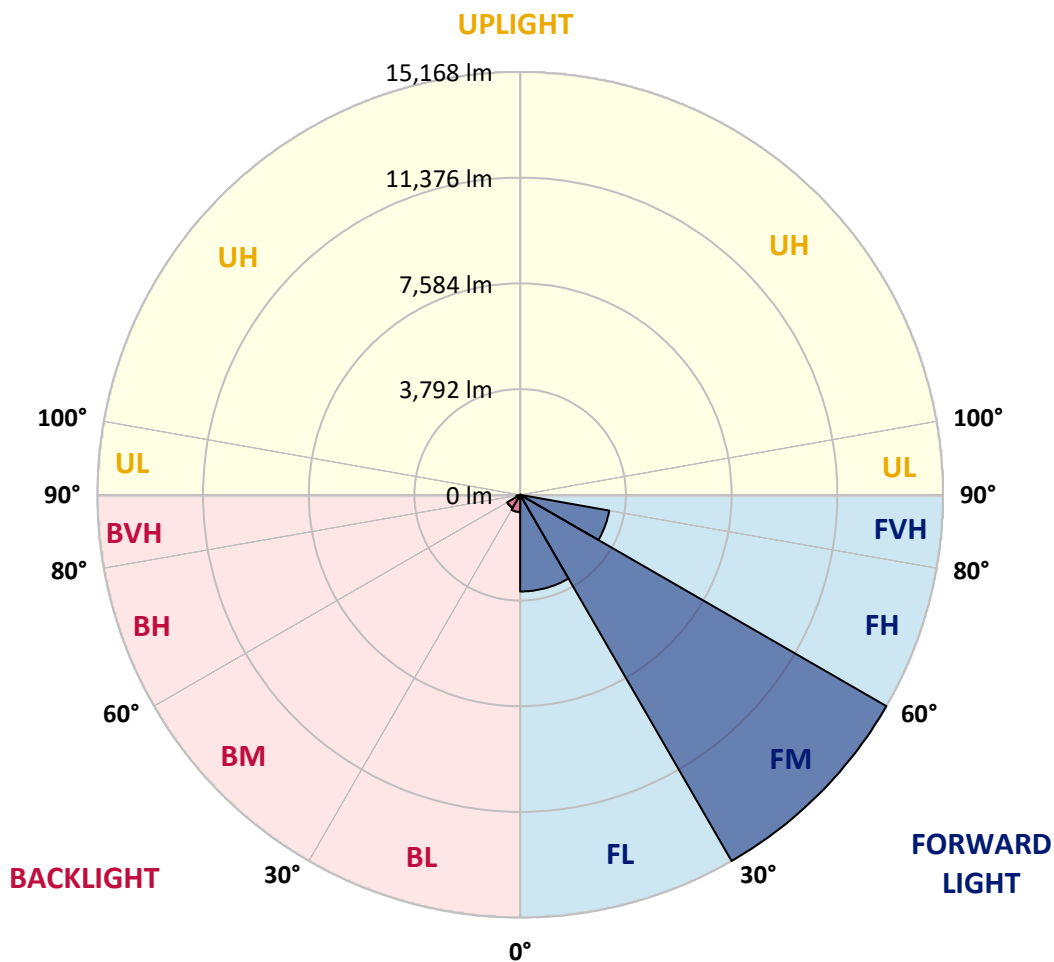
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3468.5	14.9			
FM	(30°-60°)	15168.3	65.3			
FH	(60°-80°)	3243.9	14.0			G2/5000
FVH	(80°-90°)	33.9	0.1			G1/100
BL	(0°-30°)	618.8	2.7	B2/1000		
BM	(30°-60°)	538.0	2.3	B1/1000		
BH	(60°-30°)	138.9	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°	6533.8	6533.8	6533.8	6533.8	6533.8	6533.8	6533.8	6533.8	6533.8	6533.8	6533.8
2.5°	7731.1	7648.8	7624.2	7607.7	7532.4	7437.8	7309.1	7248.9	7125.5	6927.0	6683.1
5°	8439.1	8424.1	8369.2	8339.1	8258.4	8124.1	7918.6	7820.0	7624.2	7289.9	6853.0
7.5°	8129.7	8224.2	8299.5	8425.6	8584.5	8579.0	8406.2	8303.6	8084.4	7643.4	7042.1
10°	6933.7	7010.6	7133.8	7420.1	8003.5	8518.6	8721.4	8647.4	8472.0	7968.0	7224.2
12.5°	6699.6	6691.4	6713.3	6796.8	7102.3	7836.5	8667.9	8817.3	8781.7	8265.2	7396.7
15°	6824.2	6814.6	6811.8	6840.7	6914.7	7224.2	8266.7	8695.4	8970.7	8540.5	7543.3
17.5°	7173.5	7132.5	7110.5	7087.2	7065.3	7142.1	7784.4	8354.2	8999.4	8781.7	7665.2
20°	7772.0	7703.7	7622.7	7491.2	7368.0	7329.7	7581.8	8003.5	8896.8	8965.2	7744.6
22.5°	8524.0	8436.4	8296.7	8057.0	7806.4	7661.1	7681.6	7892.7	8743.3	9165.1	7781.7
25°	9369.2	9256.9	9070.6	8737.9	8369.2	8111.9	7977.6	8051.6	8673.5	9399.3	7824.1
27.5°	10274.6	10149.9	9906.1	9452.9	9035.1	8687.1	8413.2	8403.6	8792.6	9706.2	7892.7
30°	11172.0	11152.6	10834.9	10355.5	9802.1	9378.8	8984.4	8933.6	9125.4	10130.8	8028.2
32.5°	12369.0	12225.3	11836.2	11343.1	10704.8	10196.7	9729.5	9611.8	9636.4	10625.3	8237.8
35°	13878.5	13721.0	13173.1	12492.4	11778.7	11178.8	10662.3	10502.1	10441.8	11434.9	8591.2
37.5°	14853.8	14851.0	14507.3	13814.1	13048.5	12386.9	11825.3	11637.6	11515.7	12412.9	9139.1
40°	14879.9	14944.3	14989.5	14982.7	14437.4	13827.9	13329.3	13097.7	12814.2	13719.6	9847.3
42.5°	14081.3	14246.9	14645.6	15322.3	15645.6	15403.1	14982.7	14755.2	14333.4	15118.3	10710.3
45°	13001.9	13117.1	13814.1	15060.7	16300.4	16964.8	16644.2	16237.4	15681.3	16577.1	11484.2
47.5°	12518.4	12538.9	12989.6	14358.0	16349.6	18244.0	18438.5	17777.0	16905.7	17752.2	12089.6
50°	11073.2	11110.2	11732.1	13140.2	15771.6	18848.1	20241.1	19613.9	18241.3	18657.6	12310.2
52.5°	8346.1	8398.1	9187.1	11139.1	14182.7	18590.7	21531.6	21379.4	19704.2	19100.1	12322.5
55°	4924.4	4992.8	5746.2	7498.2	11155.4	16952.4	21627.4	22186.2	20859.0	19361.8	12303.4
57.5°	2299.8	2347.8	2779.3	3862.7	6937.9	13397.9	20183.7	21632.9	21495.9	19500.0	12438.9
60°	1221.9	1235.4	1339.6	1672.6	3135.4	8495.4	17366.0	19534.4	20915.1	19691.8	12604.7
62.5°	934.1	938.3	932.8	972.5	1317.8	3770.9	13126.6	16059.3	18576.9	19548.0	12421.1
65°	809.6	816.4	778.0	768.4	845.1	1345.1	7798.1	11447.2	14597.6	17607.0	11170.6
67.5°	726.0	728.7	682.2	642.4	656.1	727.4	3076.5	6266.8	9662.3	12905.9	8096.8
70°	668.5	665.7	615.0	552.0	534.2	497.2	978.1	2297.1	4617.5	6544.8	3765.5
72.5°	591.8	593.2	568.4	486.3	443.9	348.0	453.5	669.9	1378.0	1783.5	882.1
75°	524.6	517.8	487.6	435.6	365.7	228.8	224.7	298.5	424.5	421.9	190.4
77.5°	379.4	372.5	382.1	357.5	280.8	148.0	112.3	143.8	172.6	167.2	53.4
80°	278.0	274.0	246.6	297.2	247.9	101.4	69.9	76.7	89.0	75.4	16.3
82.5°	190.4	189.1	173.9	164.4	141.0	61.7	43.8	47.9	57.5	42.5	8.3
85°	30.2	34.2	126.0	100.0	83.5	27.4	30.2	32.9	38.4	23.3	2.8
87.5°	0.0	0.0	58.8	52.0	16.3	11.0	17.7	19.1	19.1	12.3	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°	6533.8	6533.8	6533.8	6533.8	6533.8	6533.8	6533.8	6533.8	6533.8	6533.8	6533.8
2.5°	6558.4	6421.5	6168.1	5906.4	5664.1	5375.0	5176.4	5027.1	4854.5	4807.9	4909.2
5°	6603.7	6344.8	5799.6	5206.5	4649.0	4031.2	3558.6	3184.8	2846.4	2731.3	2835.4
7.5°	6674.9	6290.0	5401.0	4424.4	3454.6	2490.2	1829.9	1395.7	1119.1	1037.0	1080.8
10°	6746.1	6210.5	4939.4	3498.4	2172.6	1212.3	789.0	630.2	571.2	558.8	565.8
12.5°	6805.0	6103.8	4376.5	2487.4	1161.6	649.3	516.3	490.4	482.2	482.2	484.8
15°	6840.7	5942.1	3709.3	1582.1	668.5	490.4	450.7	442.4	442.4	443.9	446.5
17.5°	6836.6	5736.7	2979.3	957.5	499.9	434.2	411.0	404.1	402.7	405.5	406.8
20°	6785.8	5468.2	2246.4	631.5	435.6	395.9	372.5	360.2	359.0	361.6	364.4
22.5°	6689.9	5136.7	1606.8	486.3	393.1	359.0	330.0	319.2	319.2	322.0	324.6
25°	6573.5	4731.3	1098.5	412.3	354.8	319.2	291.8	282.2	284.9	291.8	293.1
27.5°	6428.4	4275.0	746.5	353.5	308.2	279.5	258.9	252.1	258.9	268.5	271.2
30°	6303.6	3799.8	532.9	305.5	261.6	241.0	228.8	228.8	238.3	256.1	260.2
32.5°	6207.8	3339.4	411.0	269.9	227.5	209.6	202.7	209.6	224.7	242.5	246.6
35°	6195.5	2960.1	348.0	241.0	202.7	185.0	182.1	194.6	209.6	223.3	226.1
37.5°	6290.0	2609.4	313.7	217.7	180.7	164.4	161.7	176.6	191.8	208.1	212.3
40°	6469.5	2334.1	289.1	195.9	163.0	145.2	139.7	150.6	171.2	193.1	198.6
42.5°	6702.3	2106.7	261.6	173.9	145.2	120.6	113.6	126.0	148.0	171.2	178.0
45°	6924.2	1910.9	231.6	149.3	121.9	93.2	90.4	106.9	117.8	141.0	146.6
47.5°	7046.1	1738.2	205.4	121.9	94.5	75.4	75.4	79.4	90.4	117.8	123.2
50°	7005.1	1599.9	178.0	90.4	65.8	57.5	57.5	56.1	72.7	94.5	98.6
52.5°	6922.9	1520.4	153.4	69.9	45.3	41.1	37.0	41.1	50.7	60.2	61.7
55°	6910.5	1506.7	128.7	56.1	31.5	27.4	20.5	20.5	20.5	19.1	16.3
57.5°	7006.4	1528.6	108.2	45.3	23.3	17.7	11.0	0.0	0.0	0.0	0.0
60°	7105.1	1551.9	93.2	31.5	16.3	9.6	1.3	0.0	0.0	0.0	0.0
62.5°	6940.7	1499.9	78.2	19.1	12.3	4.1	0.0	0.0	0.0	0.0	0.0
65°	6096.8	1276.6	61.7	13.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4336.7	854.7	41.1	8.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1979.3	357.5	26.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	423.2	110.9	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	86.2	80.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	27.4	127.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.3	91.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.8	13.7	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)