

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: P190940

Luminaire Tested: **GAN-AF-02-LED-U-AFL-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190940
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-02-LED-U-AFL-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 11188 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

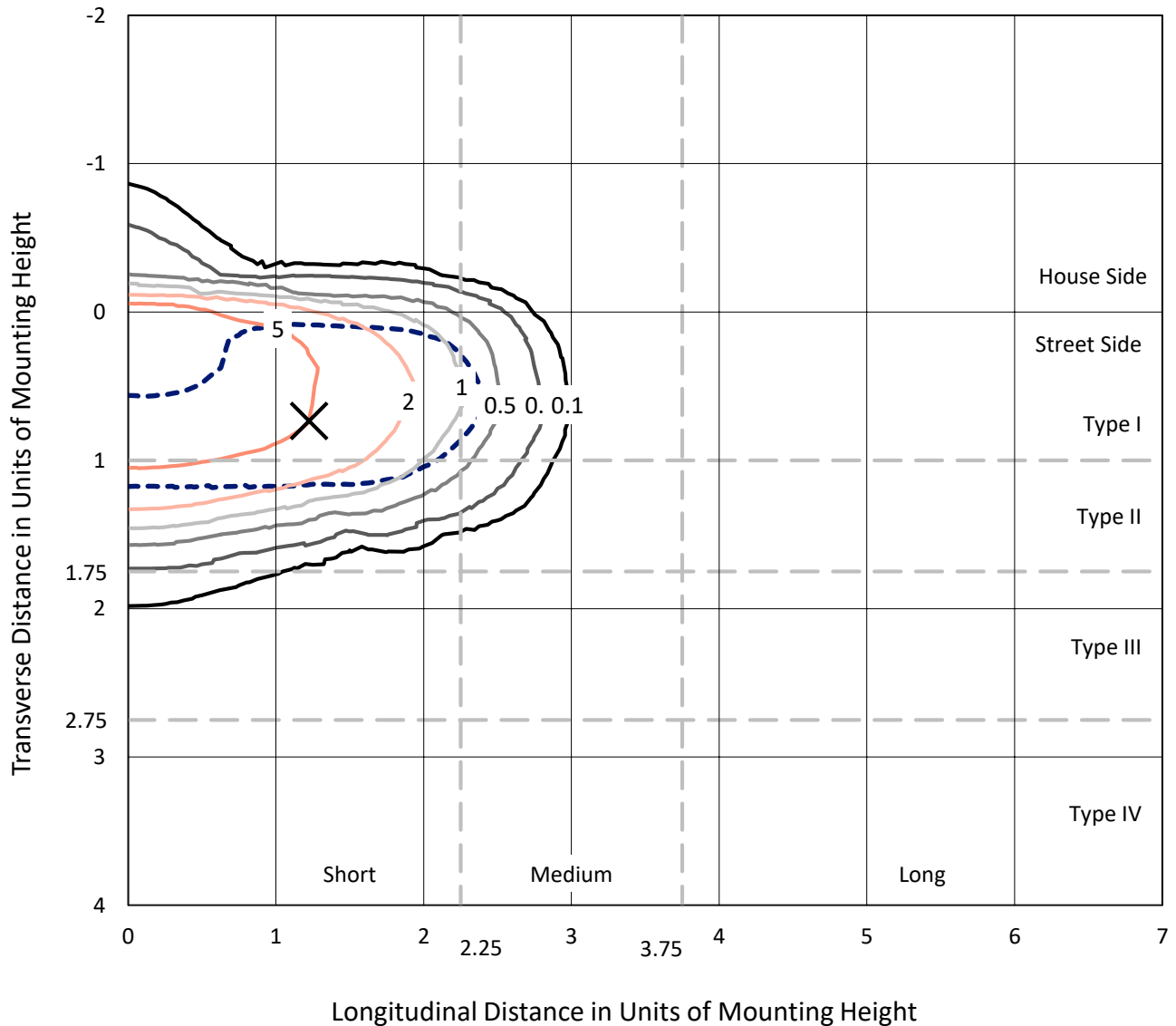
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P190940
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

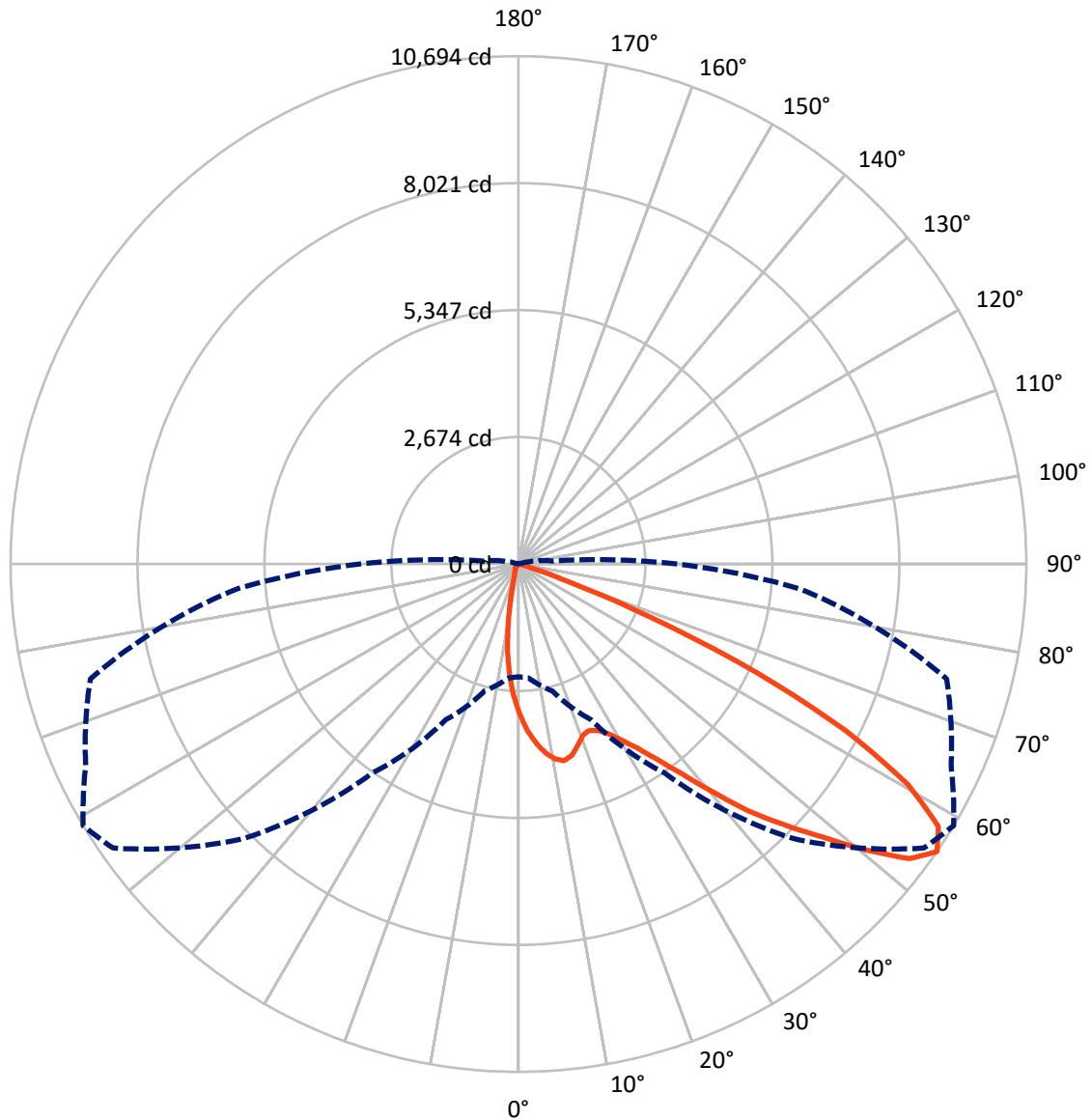


Based on 20 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P190940

CATALOG NUMBER: GAN-AF-02-LED-U-AFL-1200-HSS

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	624.9	0.0	624.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	10563.1	0.0	10563.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	11188.0	0.0	11188.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	2.4
10°-20°	631.6	5.6
20°-30°	1074.7	9.6
30°-40°	1848.3	16.5
40°-50°	2853.6	25.5
50°-60°	2868.8	25.6
60°-70°	1471.1	13.1
70°-80°	159.4	1.4
80°-90°	16.7	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°	11188.0	100.0
0°-180°	11188.0	100.0



REPORT NUMBER: P190940

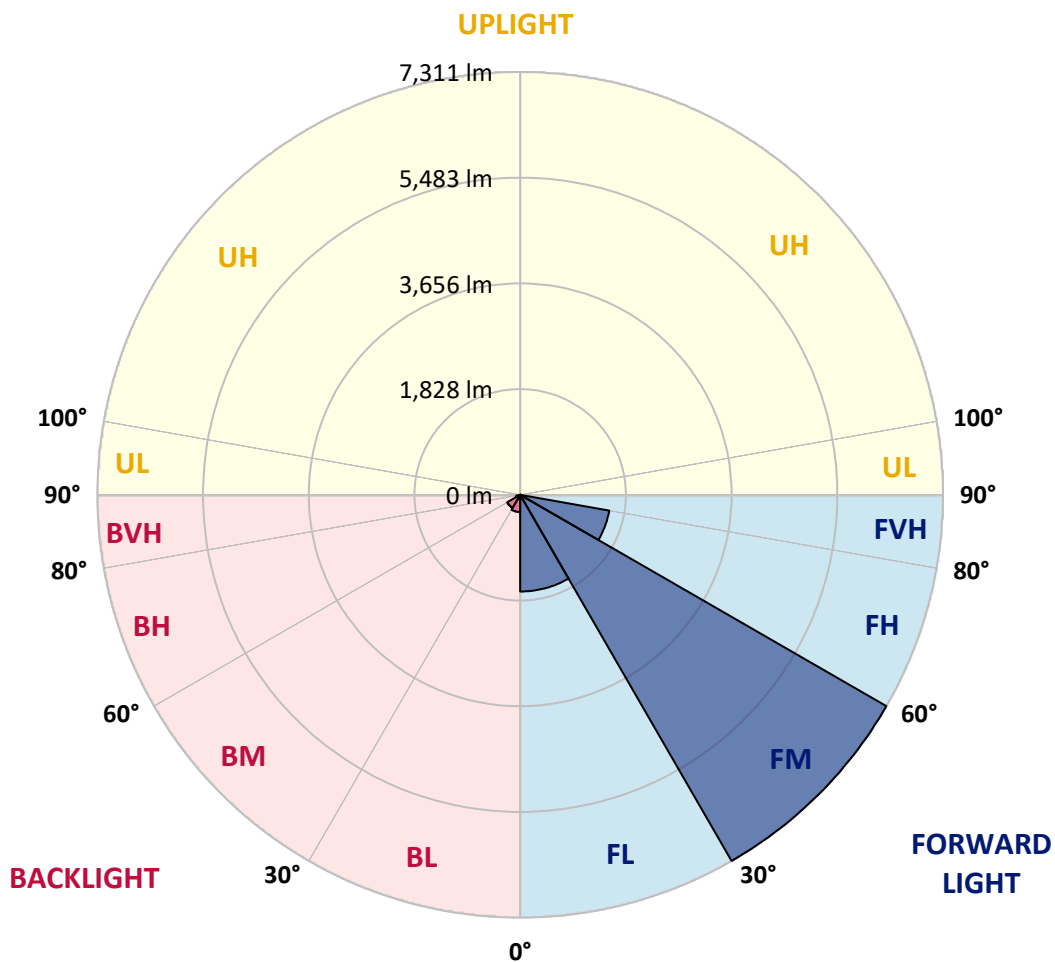
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1671.9	14.9			
FM	(30°-60°)	7311.3	65.3			
FH	(60°-80°)	1563.6	14.0			G1/1800
FVH	(80°-90°)	16.3	0.1			G1/100
BL	(0°-30°)	298.3	2.7	B1/500		
BM	(30°-60°)	259.4	2.3	B1/1000		
BH	(60°-80°)	66.9	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P190940
 CATALOG NUMBER: GAN-AF-02-LED-U-AFL-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4
2.5°	3726.4	3686.8	3675.0	3667.0	3630.7	3585.1	3523.0	3494.0	3434.7	3338.9	3221.4
5°	4067.8	4060.5	4034.1	4019.6	3980.6	3916.0	3816.9	3769.4	3675.0	3513.8	3303.2
7.5°	3918.6	3964.1	4000.5	4061.2	4137.7	4135.2	4051.9	4002.4	3896.8	3684.2	3394.4
10°	3342.2	3379.1	3438.5	3576.5	3857.9	4106.1	4203.8	4168.1	4083.6	3840.7	3482.1
12.5°	3229.3	3225.4	3235.9	3276.1	3423.4	3777.2	4178.0	4250.1	4232.9	3984.0	3565.4
15°	3289.4	3284.7	3283.4	3297.3	3333.0	3482.1	3984.6	4191.2	4324.0	4116.7	3636.0
17.5°	3457.7	3437.9	3427.4	3416.1	3405.6	3442.5	3752.2	4026.8	4337.8	4232.9	3694.8
20°	3746.3	3713.2	3674.2	3610.9	3551.5	3533.0	3654.5	3857.9	4288.3	4321.4	3733.1
22.5°	4108.7	4066.4	3999.1	3883.5	3762.7	3692.8	3702.7	3804.4	4214.4	4417.7	3750.9
25°	4516.1	4462.0	4372.2	4211.7	4034.1	3910.0	3845.3	3881.0	4180.7	4530.6	3771.3
27.5°	4952.5	4892.5	4774.9	4556.3	4355.0	4187.3	4055.3	4050.6	4238.1	4678.6	3804.4
30°	5385.0	5375.7	5222.6	4991.5	4724.7	4520.7	4330.6	4306.1	4398.6	4883.2	3869.7
32.5°	5962.1	5892.7	5705.2	5467.5	5159.9	4914.9	4689.7	4632.9	4644.8	5121.5	3970.7
35°	6689.6	6613.7	6349.7	6021.5	5677.5	5388.3	5139.4	5062.2	5033.1	5511.8	4141.1
37.5°	7159.7	7158.4	6992.7	6658.6	6289.5	5970.7	5699.9	5609.5	5550.7	5983.1	4405.1
40°	7172.3	7203.3	7225.1	7221.8	6959.0	6665.2	6424.8	6313.3	6176.6	6613.1	4746.5
42.5°	6787.4	6867.3	7059.4	7385.5	7541.4	7424.5	7221.8	7112.2	6908.8	7287.2	5162.5
45°	6267.1	6322.6	6658.6	7259.5	7857.0	8177.2	8022.7	7826.6	7558.5	7990.4	5535.5
47.5°	6034.0	6043.9	6261.2	6920.8	7880.7	8793.9	8887.6	8568.7	8148.8	8556.8	5827.3
50°	5337.5	5355.2	5655.1	6333.8	7602.1	9085.0	9756.5	9454.1	8792.6	8993.3	5933.6
52.5°	4022.9	4048.0	4428.3	5369.2	6836.2	8960.8	10378.4	10305.2	9497.7	9206.5	5939.6
55°	2373.6	2406.6	2769.7	3614.2	5377.0	8171.2	10424.7	10694.0	10054.3	9332.6	5930.4
57.5°	1108.6	1131.7	1339.7	1861.9	3344.1	6457.9	9728.8	10427.3	10361.3	9399.3	5995.7
60°	588.9	595.6	645.7	806.2	1511.3	4094.9	8370.6	9415.9	10081.4	9491.8	6075.6
62.5°	450.3	452.2	449.6	468.8	635.2	1817.7	6327.2	7740.8	8954.3	9422.4	5987.1
65°	390.3	393.5	375.0	370.4	407.3	648.3	3758.8	5517.7	7036.3	8486.8	5384.3
67.5°	350.0	351.3	328.8	309.6	316.3	350.6	1482.9	3020.7	4657.4	6220.9	3902.8
70°	322.2	320.9	296.5	266.1	257.5	239.7	471.4	1107.2	2225.7	3154.7	1815.0
72.5°	285.2	285.9	274.0	234.4	213.9	167.7	218.5	322.8	664.2	859.7	425.2
75°	252.9	249.6	235.1	209.9	176.3	110.3	108.3	143.9	204.7	203.4	91.8
77.5°	182.9	179.6	184.2	172.4	135.3	71.3	54.1	69.4	83.2	80.5	25.8
80°	134.0	132.1	118.9	143.3	119.5	48.9	33.7	36.9	43.0	36.3	7.9
82.5°	91.8	91.1	83.9	79.3	68.0	29.7	21.2	23.1	27.7	20.5	4.0
85°	14.5	16.5	60.8	48.2	40.3	13.2	14.5	15.9	18.5	11.3	1.3
87.5°	0.0	0.0	28.4	25.1	7.9	5.3	8.6	9.2	9.2	5.9	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



REPORT NUMBER: P190940

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4
2.5°	3161.2	3095.2	2973.1	2847.0	2730.2	2590.8	2495.1	2423.1	2339.9	2317.5	2366.3
5°	3183.0	3058.3	2795.5	2509.6	2240.9	1943.1	1715.3	1535.0	1372.0	1316.5	1366.8
7.5°	3217.4	3031.8	2603.4	2132.6	1665.2	1200.3	882.1	672.8	539.4	499.8	520.9
10°	3251.8	2993.6	2380.8	1686.2	1047.2	584.3	380.3	303.7	275.3	269.3	272.7
12.5°	3280.1	2942.1	2109.5	1199.0	559.9	312.9	248.9	236.4	232.4	232.4	233.7
15°	3297.3	2864.2	1787.9	762.6	322.2	236.4	217.2	213.3	213.3	213.9	215.2
17.5°	3295.3	2765.1	1436.0	461.6	241.0	209.3	198.0	194.8	194.2	195.4	196.1
20°	3270.9	2635.7	1082.8	304.3	209.9	190.8	179.6	173.6	173.0	174.3	175.6
22.5°	3224.6	2476.0	774.5	234.4	189.5	173.0	159.1	153.9	153.9	155.2	156.5
25°	3168.5	2280.5	529.5	198.8	171.0	153.9	140.7	136.1	137.4	140.7	141.3
27.5°	3098.5	2060.6	359.9	170.3	148.5	134.7	124.8	121.5	124.8	129.4	130.7
30°	3038.5	1831.5	256.9	147.2	126.1	116.2	110.3	110.3	114.9	123.5	125.4
32.5°	2992.2	1609.7	198.0	130.1	109.6	101.1	97.7	101.1	108.3	116.8	118.9
35°	2986.3	1426.8	167.7	116.2	97.7	89.1	87.8	93.8	101.1	107.6	108.9
37.5°	3031.8	1257.8	151.2	105.0	87.2	79.3	77.9	85.2	92.5	100.4	102.3
40°	3118.4	1125.0	139.3	94.4	78.6	70.0	67.3	72.6	82.6	93.1	95.7
42.5°	3230.6	1015.5	126.1	83.9	70.0	58.1	54.8	60.8	71.3	82.6	85.8
45°	3337.6	921.1	111.6	72.0	58.7	44.9	43.6	51.5	56.8	68.0	70.7
47.5°	3396.3	837.9	99.0	58.7	45.5	36.3	36.3	38.3	43.6	56.8	59.4
50°	3376.6	771.2	85.8	43.6	31.7	27.7	27.7	27.1	35.0	45.5	47.6
52.5°	3336.9	732.8	74.0	33.7	21.8	19.8	17.8	19.8	24.4	29.1	29.7
55°	3330.9	726.3	62.1	27.1	15.1	13.2	9.9	9.9	9.9	9.2	7.9
57.5°	3377.2	736.8	52.2	21.8	11.3	8.6	5.3	0.0	0.0	0.0	0.0
60°	3424.7	748.1	44.9	15.1	7.9	4.6	0.6	0.0	0.0	0.0	0.0
62.5°	3345.5	723.0	37.6	9.2	5.9	1.9	0.0	0.0	0.0	0.0	0.0
65°	2938.7	615.3	29.7	6.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2090.3	412.0	19.8	4.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	954.1	172.4	12.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	204.0	53.5	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	41.6	39.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.2	61.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.9	44.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.3	6.6	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)