

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: P192671

Luminaire Tested: **GAN-AF-03-LED-U-AFL-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192671
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-03-LED-U-AFL-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 14387.2 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

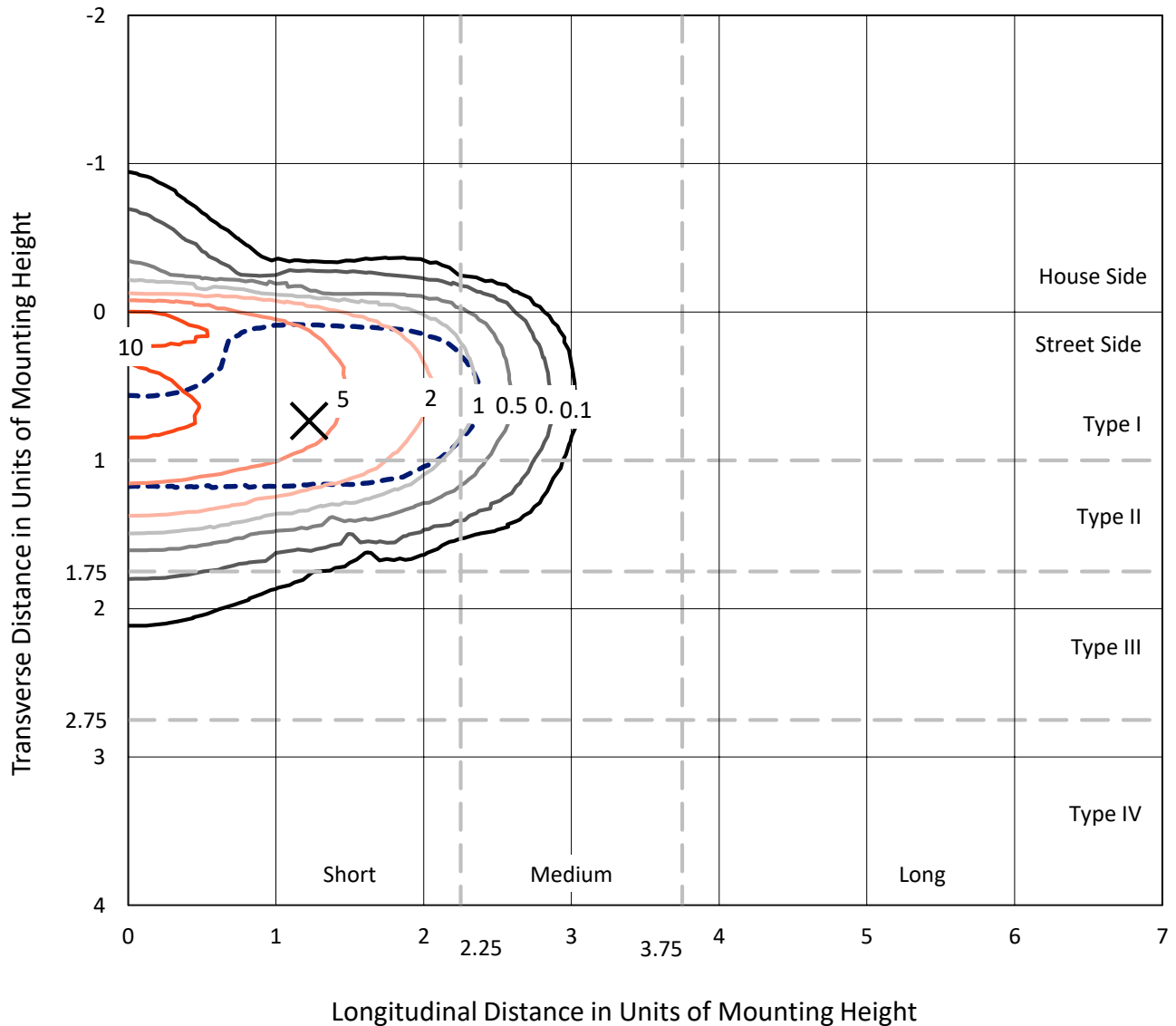
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

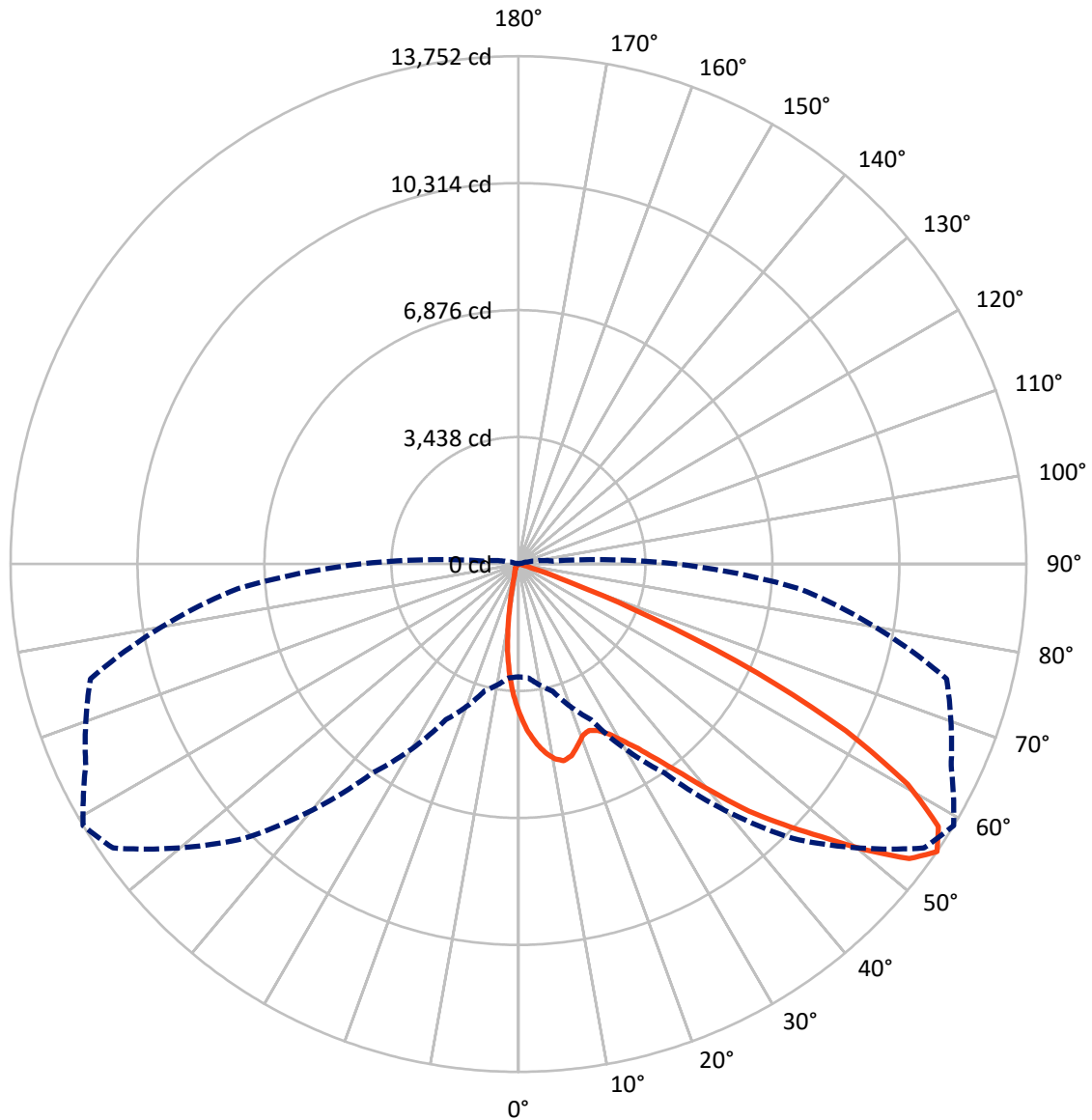
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.6 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	803.6	0.0	803.6
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	13583.6	0.0	13583.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	14387.2	0.0	14387.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.2	2.4
10°-20°	812.2	5.6
20°-30°	1382.1	9.6
30°-40°	2376.8	16.5
40°-50°	3669.6	25.5
50°-60°	3689.1	25.6
60°-70°	1891.8	13.1
70°-80°	205.0	1.4
80°-90°	21.4	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°	14387.2	100.0
0°-180°	14387.2	100.0

Coefficient of Utilization



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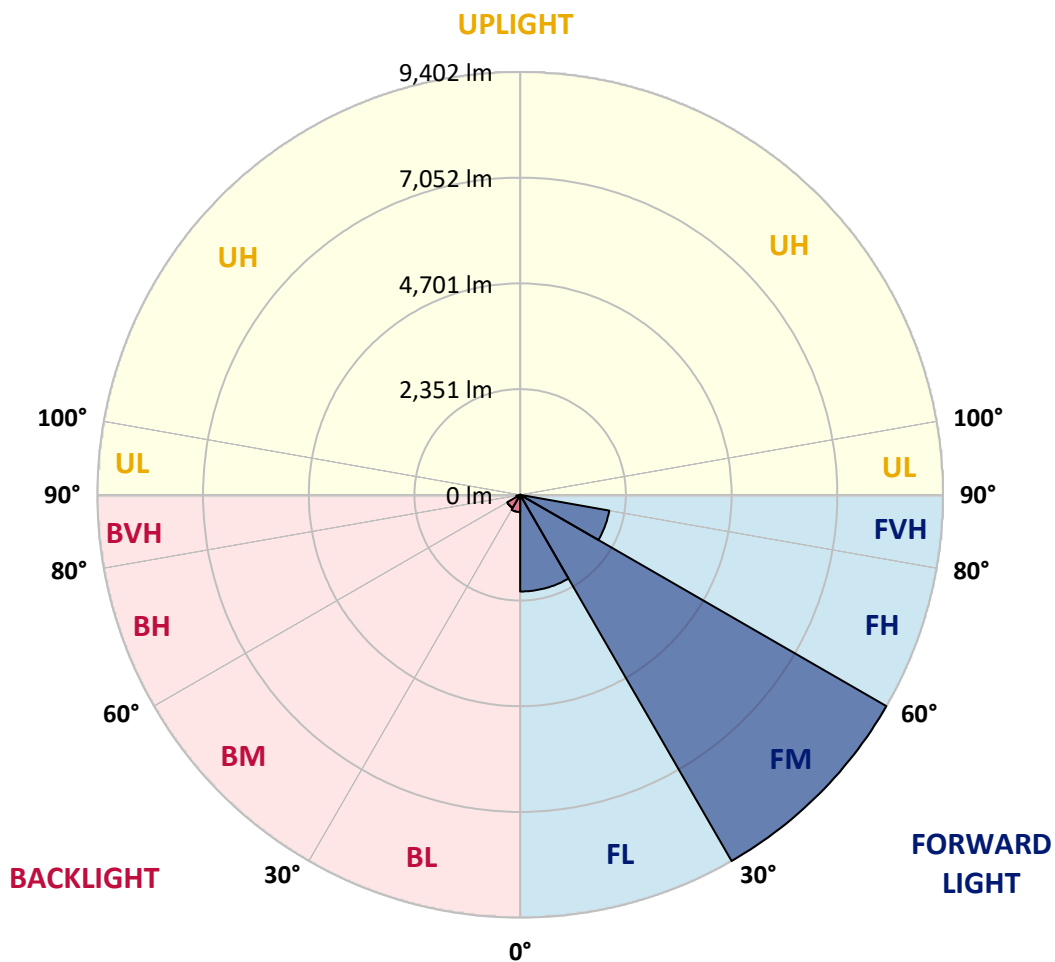
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2149.9	14.9			
FM	(30°-60°)	9402.0	65.3			
FH	(60°-80°)	2010.7	14.0			G2/5000
FVH	(80°-90°)	21.0	0.1			G1/100
BL	(0°-30°)	383.6	2.7	B1/500		
BM	(30°-60°)	333.5	2.3	B1/1000		
BH	(60°-80°)	86.1	0.6	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4049.9	4049.9	4049.9	4049.9	4049.9	4049.9	4049.9	4049.9	4049.9	4049.9	4049.9
2.5°	4792.0	4741.1	4725.8	4715.6	4668.8	4610.3	4530.6	4493.2	4416.7	4293.7	4142.4
5°	5231.0	5221.6	5187.7	5169.0	5118.9	5035.8	4908.4	4847.2	4725.8	4518.6	4247.8
7.5°	5039.1	5097.7	5144.4	5222.5	5321.0	5317.5	5210.6	5146.9	5011.0	4737.7	4364.9
10°	4297.9	4345.5	4421.8	4599.3	4961.0	5280.3	5405.9	5360.0	5251.3	4938.9	4477.9
12.5°	4152.7	4147.6	4161.1	4212.9	4402.3	4857.4	5372.9	5465.3	5443.3	5123.1	4584.8
15°	4230.0	4224.0	4222.4	4240.2	4286.0	4477.9	5124.0	5389.8	5560.4	5293.8	4675.8
17.5°	4446.5	4420.9	4407.4	4393.0	4379.4	4426.9	4825.1	5178.4	5578.2	5443.3	4751.2
20°	4817.5	4775.0	4724.9	4643.4	4567.0	4543.2	4699.5	4961.0	5514.6	5557.0	4800.6
22.5°	5283.7	5229.2	5142.8	4994.1	4838.8	4748.7	4761.5	4892.2	5419.5	5680.9	4823.5
25°	5807.4	5737.9	5622.4	5416.1	5187.7	5028.1	4944.8	4990.8	5376.2	5826.1	4849.8
27.5°	6368.7	6291.4	6140.4	5859.2	5600.3	5384.7	5214.8	5208.9	5450.1	6016.4	4892.2
30°	6924.9	6913.0	6715.9	6418.8	6075.8	5813.4	5569.0	5537.5	5656.4	6279.5	4976.3
32.5°	7666.9	7577.7	7336.6	7031.0	6635.4	6320.3	6030.8	5957.8	5973.1	6586.0	5106.2
35°	8602.5	8505.0	8165.3	7743.3	7300.9	6929.1	6609.0	6509.6	6472.3	7087.8	5325.2
37.5°	9207.1	9205.4	8992.2	8562.6	8088.0	7677.9	7329.8	7213.6	7137.9	7694.0	5664.9
40°	9223.2	9263.1	9291.2	9286.9	8949.0	8571.2	8262.0	8118.6	7942.8	8504.0	6103.8
42.5°	8728.1	8831.0	9078.1	9497.5	9697.9	9547.5	9286.9	9146.0	8884.4	9370.9	6638.7
45°	8059.2	8130.5	8562.6	9335.3	10103.6	10515.4	10316.8	10064.6	9719.9	10275.2	7118.5
47.5°	7759.5	7772.1	8051.6	8899.7	10134.3	11308.5	11429.1	11018.9	10478.9	11003.7	7493.6
50°	6863.6	6886.6	7272.1	8144.9	9776.0	11682.9	12546.4	12157.5	11306.8	11564.9	7630.4
52.5°	5173.2	5205.5	5694.6	6904.4	8791.0	11523.2	13346.2	13251.9	12213.5	11839.2	7638.0
55°	3052.3	3094.8	3561.8	4647.7	6914.7	10507.8	13405.7	13752.0	12929.3	12001.2	7626.2
57.5°	1425.5	1455.3	1722.7	2394.3	4300.5	8304.6	12510.7	13409.1	13324.1	12087.1	7710.2
60°	757.3	765.8	830.4	1036.7	1943.5	5265.8	10764.2	12108.3	12964.1	12205.9	7812.9
62.5°	579.1	581.6	578.2	602.8	816.8	2337.4	8136.4	9954.3	11514.9	12116.8	7699.2
65°	501.8	506.0	482.3	476.4	523.9	833.7	4833.6	7095.6	9048.3	10913.7	6924.0
67.5°	450.0	451.7	422.9	398.2	406.7	450.8	1907.0	3884.3	5989.1	7999.8	5018.8
70°	414.3	412.7	381.2	342.2	331.2	308.2	606.2	1423.8	2862.1	4056.8	2334.0
72.5°	366.8	367.6	352.4	301.4	275.2	215.7	281.1	415.1	854.2	1105.4	546.8
75°	325.1	320.9	302.2	270.0	226.7	141.8	139.2	185.0	263.2	261.4	118.0
77.5°	235.2	231.0	236.9	221.6	174.0	91.7	69.6	89.1	107.0	103.6	33.1
80°	172.4	169.8	152.9	184.2	153.7	62.9	43.2	47.5	55.1	46.7	10.2
82.5°	118.0	117.1	107.8	101.9	87.4	38.2	27.2	29.7	35.6	26.3	5.1
85°	18.7	21.2	78.1	62.0	51.8	16.9	18.7	20.4	23.8	14.4	1.7
87.5°	0.0	0.0	36.5	32.2	10.2	6.8	11.0	11.9	11.9	7.6	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°	4049.9	4049.9	4049.9	4049.9	4049.9	4049.9	4049.9	4049.9	4049.9	4049.9	4049.9
2.5°	4065.2	3980.4	3823.3	3661.1	3510.8	3331.7	3208.5	3116.0	3009.0	2980.1	3043.0
5°	4093.3	3932.8	3594.8	3227.2	2881.7	2498.8	2205.8	1974.0	1764.3	1693.0	1757.6
7.5°	4137.4	3898.8	3347.8	2742.4	2141.3	1543.7	1134.3	865.3	693.7	642.8	669.9
10°	4181.6	3849.5	3061.7	2168.5	1346.6	751.3	489.1	390.6	354.0	346.5	350.6
12.5°	4218.1	3783.3	2712.7	1541.8	720.0	402.4	320.1	304.0	298.9	298.9	300.6
15°	4240.2	3683.1	2299.3	980.6	414.3	304.0	279.3	274.2	274.2	275.2	276.8
17.5°	4237.6	3555.9	1846.7	593.5	309.9	269.1	254.7	250.4	249.6	251.3	252.2
20°	4206.2	3389.4	1392.4	391.3	270.0	245.4	231.0	223.3	222.5	224.2	225.8
22.5°	4146.7	3184.0	995.9	301.4	243.6	222.5	204.7	197.9	197.9	199.5	201.2
25°	4074.6	2932.6	680.9	255.5	219.9	197.9	180.9	175.0	176.6	180.9	181.7
27.5°	3984.5	2649.9	462.7	219.1	190.9	173.1	160.5	156.2	160.5	166.4	168.2
30°	3907.3	2355.3	330.3	189.3	162.1	149.4	141.8	141.8	147.7	158.8	161.2
32.5°	3847.9	2070.0	254.7	167.2	141.0	129.9	125.6	129.9	139.2	150.2	152.9
35°	3840.3	1834.8	215.7	149.4	125.6	114.6	113.0	120.5	129.9	138.4	140.1
37.5°	3898.8	1617.5	194.5	135.1	112.1	101.9	100.2	109.5	118.9	129.0	131.5
40°	4010.1	1446.8	179.1	121.4	101.1	90.0	86.7	93.4	106.1	119.7	123.1
42.5°	4154.4	1305.8	162.1	107.8	90.0	74.8	70.5	78.1	91.7	106.1	110.4
45°	4291.9	1184.4	143.4	92.6	75.6	57.7	56.0	66.2	72.9	87.4	90.8
47.5°	4367.5	1077.4	127.4	75.6	58.6	46.7	46.7	49.2	56.0	72.9	76.4
50°	4342.1	991.6	110.4	56.0	40.8	35.6	35.6	34.9	45.1	58.6	61.1
52.5°	4291.0	942.5	95.0	43.2	28.0	25.4	23.0	25.4	31.4	37.3	38.2
55°	4283.4	933.9	79.8	34.9	19.5	16.9	12.8	12.8	12.8	11.9	10.2
57.5°	4342.8	947.5	67.0	28.0	14.4	11.0	6.8	0.0	0.0	0.0	0.0
60°	4404.0	961.9	57.7	19.5	10.2	5.9	0.9	0.0	0.0	0.0	0.0
62.5°	4302.1	929.7	48.4	11.9	7.6	2.5	0.0	0.0	0.0	0.0	0.0
65°	3779.2	791.4	38.2	8.5	5.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2688.1	529.8	25.4	5.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	1226.9	221.6	16.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	262.3	68.8	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	53.5	50.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	16.9	79.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.2	57.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.7	8.5	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)