

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: P321227

Luminaire Tested: **GAN-SA3A-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10458 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

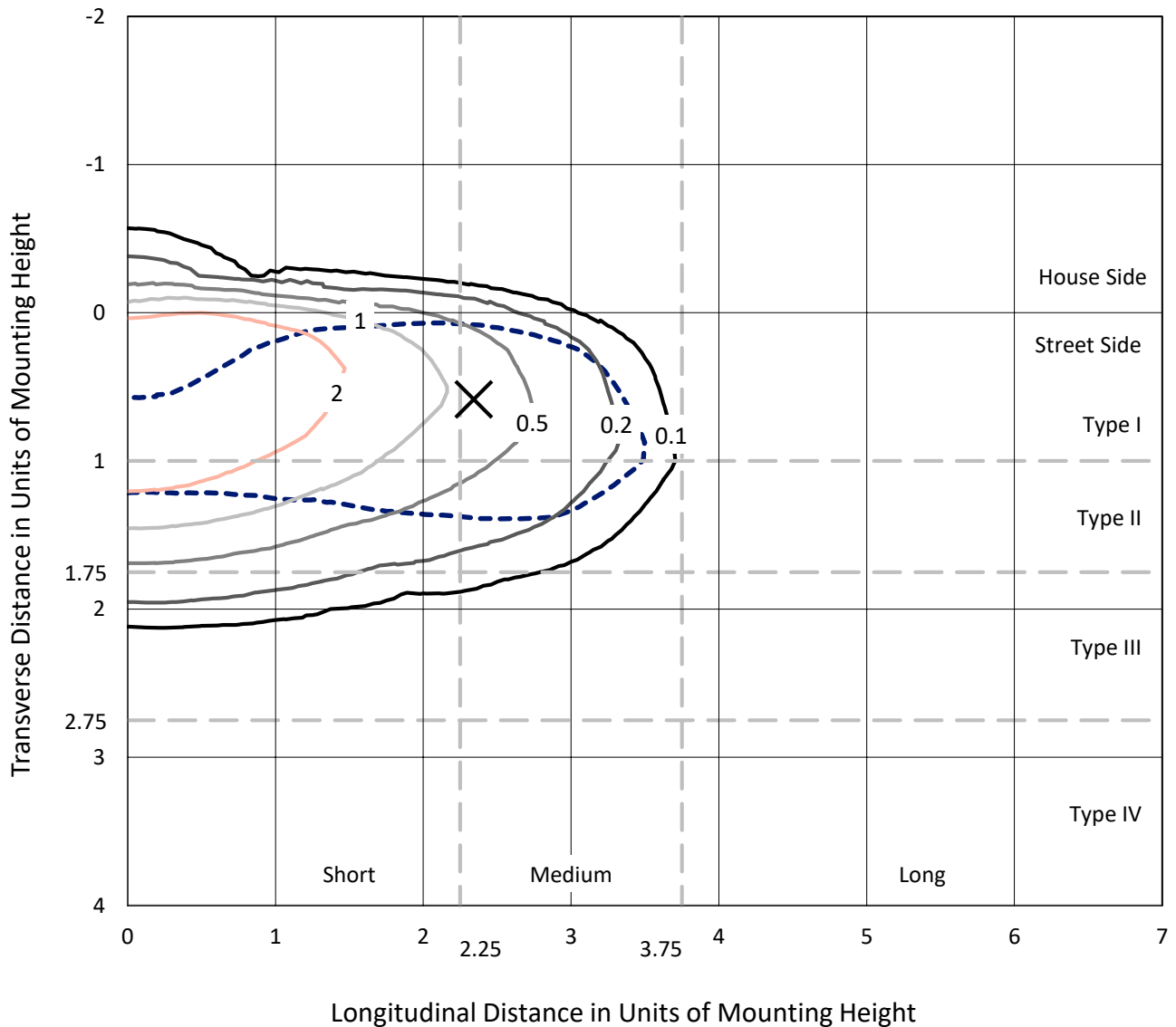
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

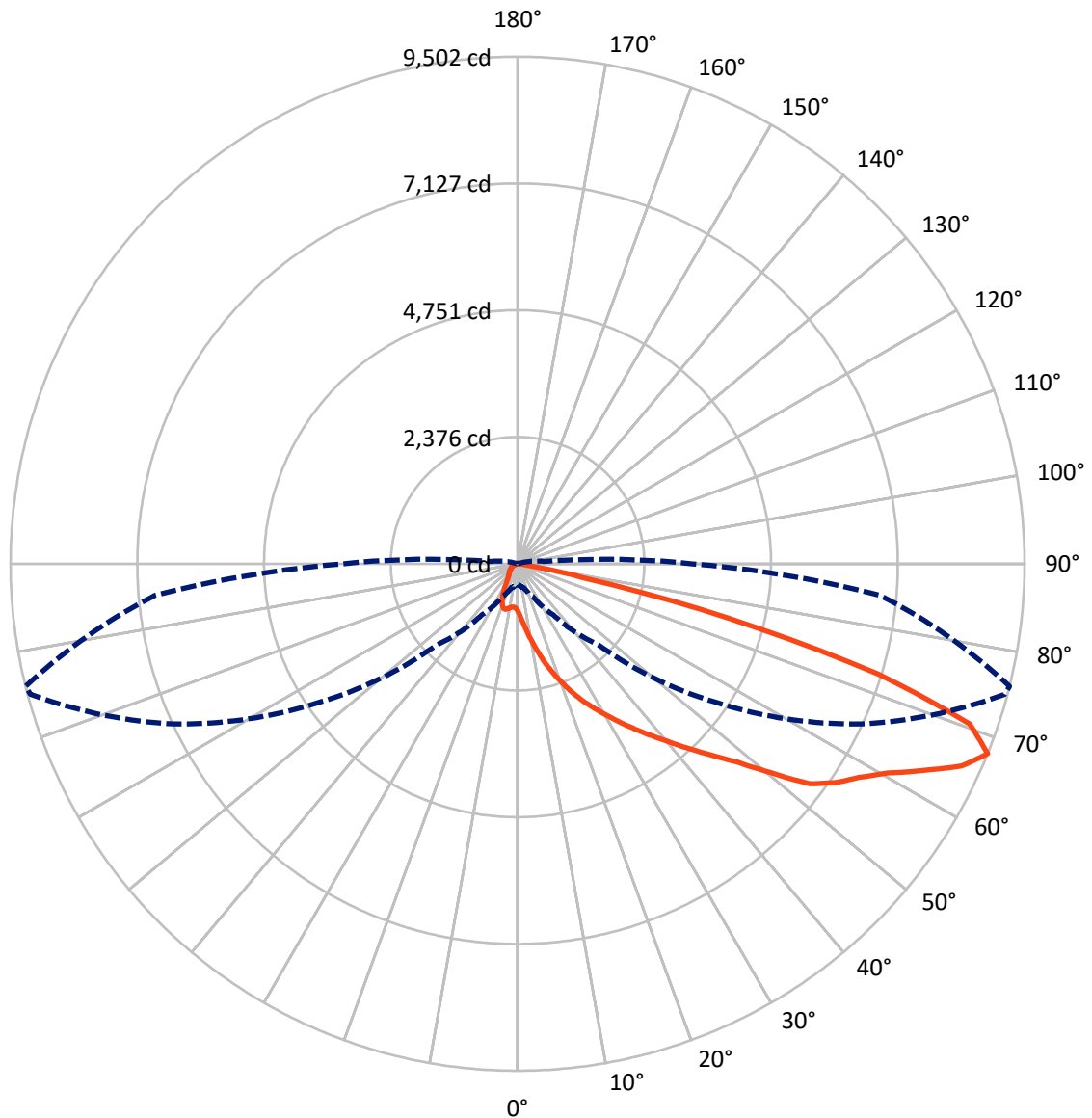
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	519.3	0.0	519.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	9938.7	0.0	9938.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	10458.0	0.0	10458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	1.1
10°-20°	437.3	4.2
20°-30°	889.8	8.5
30°-40°	1544.3	14.8
40°-50°	2182.0	20.9
50°-60°	2474.5	23.7
60°-70°	2052.3	19.6
70°-80°	743.4	7.1
80°-90°	24.1	0.2
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°	10458.0	100.0
0°-180°	10458.0	100.0

Coefficient of Utilization

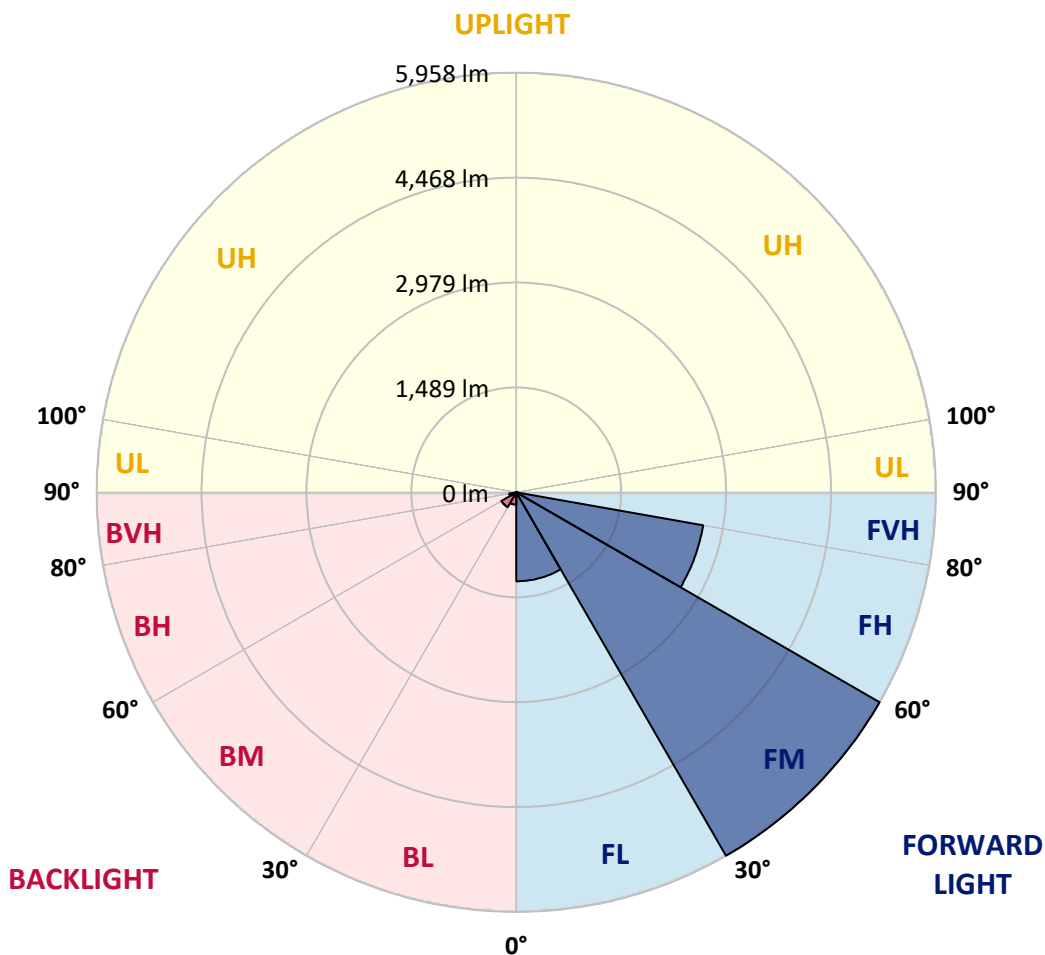


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1262.2	12.1			
FM (30°-60°)	5957.7	57.0			
FH (60°-80°)	2695.4	25.8			G2/5000
FVH (80°-90°)	23.3	0.2			G1/100
BL (0°-30°)	175.1	1.7	B1/500		
BM (30°-60°)	243.1	2.3	B1/1000		
BH (60°-80°)	100.4	1.0	B0/110		G0/110
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: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	887.1	887.1	887.1	887.1	887.1	887.1	887.1	887.1	887.1	887.1	887.1
2.5°	1324.3	1294.5	1301.4	1282.1	1247.3	1175.8	1114.9	1057.1	989.8	987.5	932.0
5°	1785.7	1760.5	1757.3	1718.4	1655.1	1533.7	1415.5	1280.8	1130.5	1119.5	1001.7
7.5°	2204.6	2184.4	2177.1	2130.8	2013.0	1894.8	1740.8	1542.9	1307.8	1287.6	1095.6
10°	2526.2	2516.6	2518.5	2485.5	2384.7	2274.7	2072.6	1820.1	1509.0	1477.8	1208.4
12.5°	2770.0	2772.3	2788.8	2768.7	2712.3	2630.7	2414.9	2115.7	1731.7	1689.1	1337.1
15°	2949.2	2960.7	2990.9	3016.1	3012.0	2941.4	2743.4	2415.8	1968.1	1920.9	1480.6
17.5°	3065.1	3078.0	3121.9	3177.9	3229.2	3212.7	3060.5	2705.4	2207.3	2152.8	1634.1
20°	3166.9	3182.0	3229.2	3303.0	3398.7	3419.3	3319.4	2986.3	2446.1	2379.6	1792.6
22.5°	3387.3	3386.8	3415.7	3458.8	3549.9	3603.1	3539.9	3247.0	2682.0	2612.9	1954.4
25°	3785.9	3770.8	3760.7	3726.8	3747.0	3780.0	3744.7	3490.8	2919.4	2849.3	2118.4
27.5°	4259.7	4268.9	4187.3	4096.2	4025.6	3991.7	3933.9	3716.7	3147.6	3070.6	2278.8
30°	4759.7	4762.4	4666.2	4549.8	4394.5	4265.7	4165.8	3932.6	3382.2	3298.4	2434.6
32.5°	5210.6	5192.7	5097.4	4938.8	4742.7	4597.9	4390.3	4173.6	3630.6	3549.5	2607.8
35°	5568.0	5546.9	5431.0	5286.6	5083.2	4937.5	4687.7	4414.2	3891.8	3812.5	2781.5
37.5°	5829.2	5804.5	5685.3	5536.8	5361.3	5276.6	5032.8	4675.8	4176.8	4091.6	2964.3
40°	5919.9	5898.4	5823.7	5715.1	5574.0	5554.7	5398.9	4976.9	4487.0	4396.3	3171.4
42.5°	5865.9	5844.8	5818.2	5781.5	5722.9	5741.2	5744.4	5320.1	4831.6	4742.3	3400.1
45°	5651.4	5632.6	5660.1	5713.7	5786.6	5877.3	6059.7	5689.0	5216.5	5121.2	3664.5
47.5°	5335.7	5321.9	5398.0	5531.8	5744.9	5995.1	6347.9	6076.6	5648.7	5560.2	3994.4
50°	4886.6	4884.3	5036.5	5280.7	5608.3	6051.9	6645.8	6517.5	6248.9	6155.9	4453.1
52.5°	4187.3	4191.9	4491.2	4882.0	5368.7	6013.4	6837.3	7083.8	6947.3	6850.6	4850.4
55°	3521.5	3549.0	3761.2	4324.8	5001.2	5870.4	6903.3	7348.2	7332.7	7241.0	5071.3
57.5°	2869.5	2919.4	3123.8	3650.3	4464.6	5541.0	6867.1	7462.8	7619.5	7549.4	5362.7
60°	2162.9	2185.8	2421.3	2913.5	3775.8	4939.8	6604.5	7525.1	8011.8	7963.2	5785.7
62.5°	1376.1	1433.4	1642.3	2117.0	2940.0	4104.9	6161.9	7524.2	8502.5	8529.1	6331.4
65°	724.9	791.8	902.7	1311.9	2020.4	3172.4	5496.1	7453.6	9104.7	9141.8	6758.0
67.5°	390.9	410.1	468.8	680.9	1171.7	2149.1	4517.7	7105.4	9453.4	9502.4	6817.6
70°	285.9	296.5	318.5	376.7	589.7	1248.2	3296.5	6315.8	9003.8	8985.5	6057.4
72.5°	219.5	236.0	252.5	275.9	339.1	666.3	2052.4	4945.7	7184.2	7063.2	4527.8
75°	173.2	176.0	199.3	220.4	254.3	379.4	911.4	2880.5	4384.8	4098.4	2348.0
77.5°	138.4	140.2	154.0	172.3	204.4	249.3	282.3	1133.2	1399.9	1249.1	509.6
80°	82.0	86.6	114.6	132.9	169.5	157.2	103.1	246.1	218.6	198.0	85.7
82.5°	45.8	49.5	64.6	104.9	118.2	75.2	51.3	66.4	51.3	49.9	24.3
85°	0.0	2.3	41.7	65.1	48.1	16.5	21.5	22.0	15.1	14.2	9.6
87.5°	0.0	0.0	12.8	12.4	1.8	2.7	5.0	7.3	6.0	6.0	5.0
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°	887.1	887.1	887.1	887.1	887.1	887.1	887.1	887.1	887.1	887.1	887.1
2.5°	904.6	879.8	833.1	787.2	748.8	717.1	688.7	677.3	668.1	666.7	659.4
5°	944.9	894.9	805.6	732.3	683.2	648.4	618.6	600.3	586.1	580.6	575.5
7.5°	1005.8	930.2	801.9	717.6	658.9	600.3	545.3	485.7	448.6	434.4	426.2
10°	1080.1	977.0	815.7	713.5	610.8	487.1	395.9	320.3	289.6	279.5	276.8
12.5°	1166.7	1035.2	839.5	687.8	508.2	346.0	273.1	247.4	240.6	237.4	237.4
15°	1266.1	1098.8	856.4	613.6	375.8	261.7	236.4	224.5	217.2	213.1	213.5
17.5°	1367.8	1161.2	848.2	505.9	277.2	232.8	214.0	201.2	191.1	187.0	186.0
20°	1470.5	1218.9	802.4	376.7	234.6	211.2	190.2	176.0	165.9	161.8	160.8
22.5°	1576.8	1267.9	721.7	276.3	210.8	187.4	166.8	152.6	143.0	139.3	137.5
25°	1680.3	1307.8	609.0	223.6	188.3	165.0	145.3	132.0	123.3	119.6	119.1
27.5°	1777.0	1333.0	478.4	197.5	168.6	144.8	126.9	115.0	107.7	104.9	104.5
30°	1864.1	1335.3	353.8	178.3	151.2	127.4	110.9	100.4	93.9	91.2	90.3
32.5°	1952.1	1316.0	257.5	160.8	135.2	112.3	96.2	88.0	83.4	81.1	81.1
35°	2035.0	1271.6	200.7	145.7	119.6	97.6	84.8	78.8	76.1	73.8	73.8
37.5°	2116.1	1207.9	170.5	132.4	104.9	85.2	74.7	71.0	68.7	66.4	66.4
40°	2198.6	1127.7	154.9	120.1	93.0	75.6	66.4	63.2	60.9	59.1	58.7
42.5°	2299.9	1035.2	144.8	108.6	82.5	66.9	58.7	55.0	53.2	51.3	50.4
45°	2417.2	955.4	136.6	97.1	73.8	59.6	50.9	47.2	44.4	42.2	41.7
47.5°	2586.3	897.7	125.6	84.8	65.5	51.8	44.0	39.9	35.7	33.5	33.0
50°	2802.1	850.0	111.4	73.8	57.3	44.0	36.7	31.6	28.0	25.7	25.7
52.5°	2909.3	787.7	98.5	64.2	48.1	37.1	29.8	23.8	22.0	19.7	19.7
55°	2952.4	740.0	85.7	54.5	39.9	30.7	23.4	18.3	17.0	15.6	15.1
57.5°	3073.4	726.3	74.7	46.3	33.0	24.3	17.9	13.7	12.8	11.0	11.0
60°	3268.1	733.2	64.6	39.4	26.6	18.8	13.3	10.5	9.6	7.8	7.8
62.5°	3478.5	724.5	54.5	33.9	20.6	13.7	9.2	7.8	7.8	4.6	4.1
65°	3518.8	645.2	46.7	28.0	16.0	10.1	6.0	5.0	6.9	0.9	0.0
67.5°	3265.8	500.4	40.3	21.5	11.9	7.8	4.6	2.3	6.0	0.0	0.0
70°	2611.5	318.0	32.5	15.6	9.2	6.4	3.7	0.9	4.6	0.0	0.0
72.5°	1846.7	184.7	25.7	11.0	7.8	5.0	2.7	0.0	2.7	0.0	0.0
75°	933.9	98.5	16.0	8.2	6.0	3.7	1.8	0.0	0.5	0.0	0.0
77.5°	202.1	45.8	10.1	6.0	4.1	2.3	0.9	0.0	0.0	0.0	0.0
80°	44.0	20.2	6.4	3.7	2.3	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	16.0	10.5	3.2	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.7	5.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	1.8	0.5	0.5	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)