

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: P321277

Luminaire Tested: **GAN-SA3B-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321277
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-SA3B-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA 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: 14082 lumens
Efficiency: N/A
Efficacy: 113.6 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): 124
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

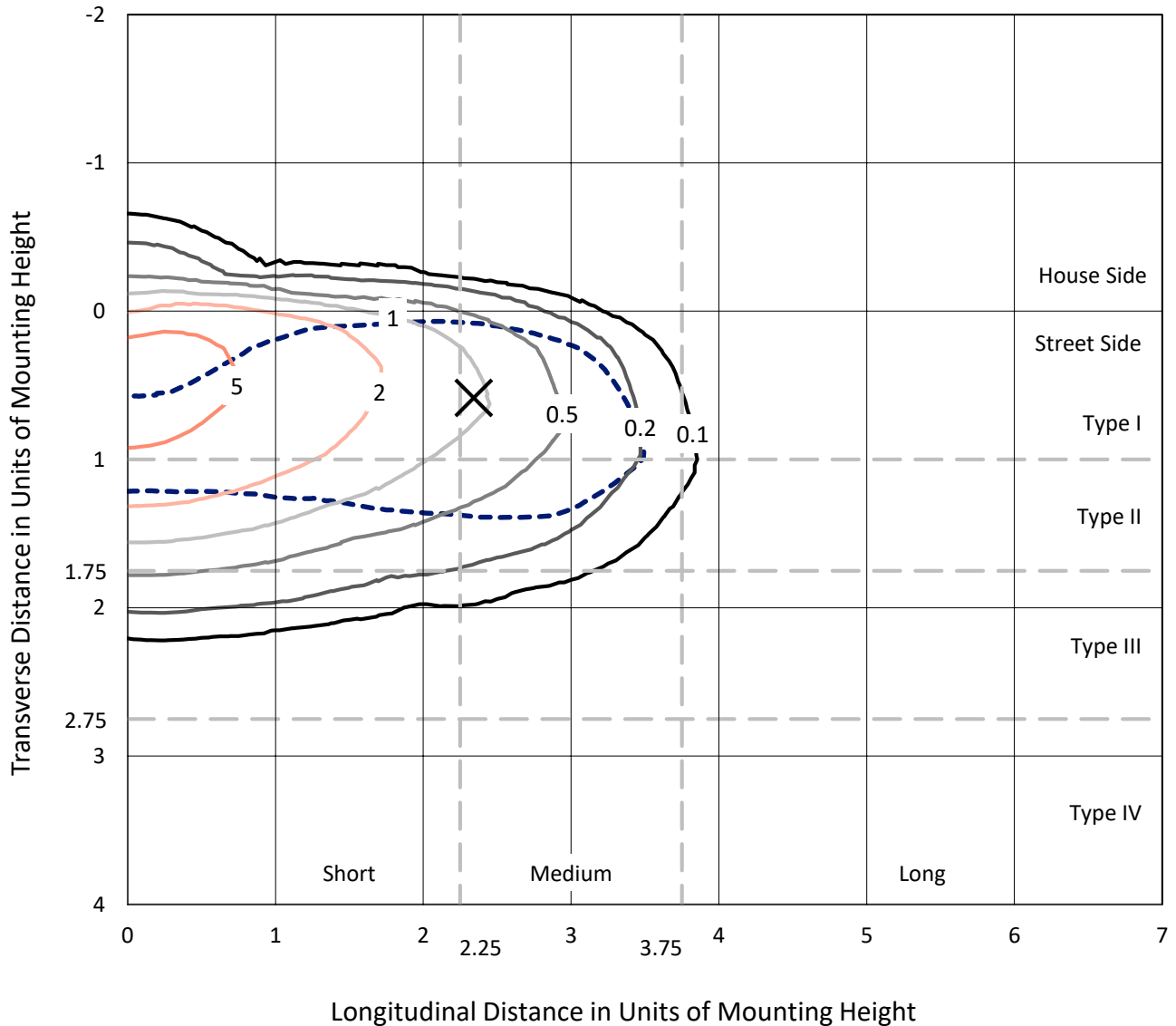




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Iso-Footcandle Lines of Horizontal Illumination

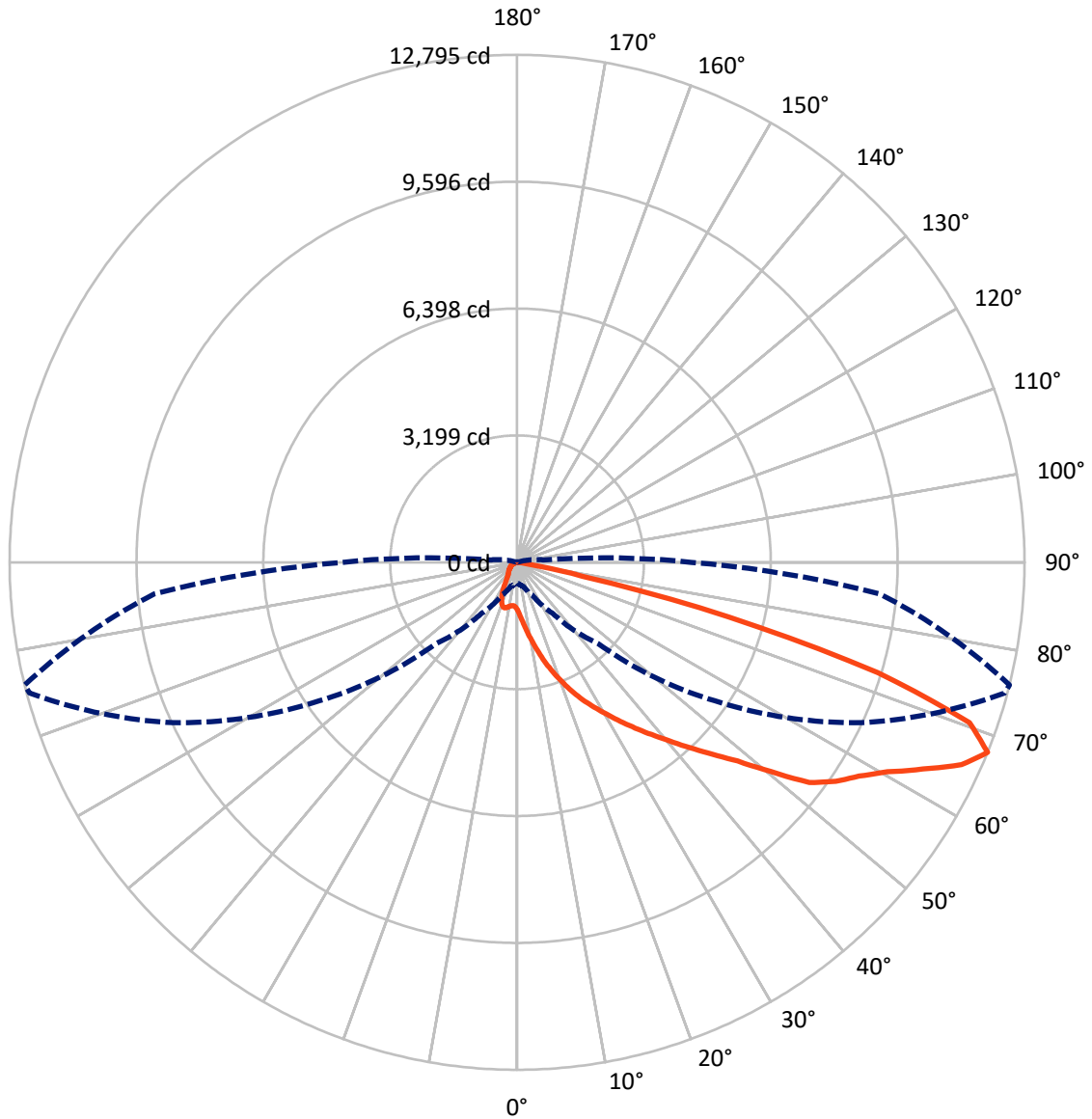
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	699.3	0.0	699.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	13382.7	0.0	13382.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	14082.0	0.0	14082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	1.1
10°-20°	588.8	4.2
20°-30°	1198.1	8.5
30°-40°	2079.5	14.8
40°-50°	2938.1	20.9
50°-60°	3331.9	23.7
60°-70°	2763.5	19.6
70°-80°	1001.0	7.1
80°-90°	32.5	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°	14082.0	100.0
0°-180°	14082.0	100.0

Coefficient of Utilization

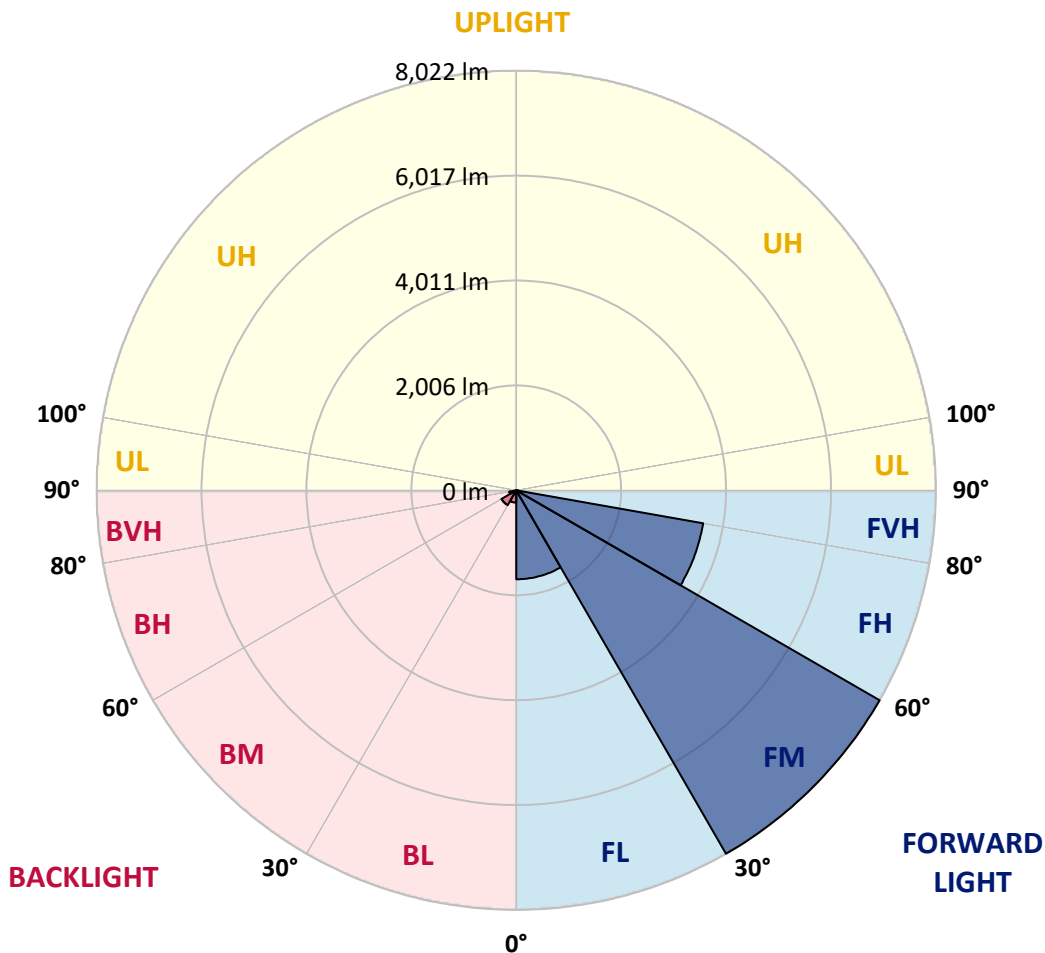


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1699.7	12.1			
FM (30°-60°)	8022.2	57.0			
FH (60°-80°)	3629.4	25.8			G2/5000
FVH (80°-90°)	31.4	0.2			G1/100
BL (0°-30°)	235.8	1.7	B1/500		
BM (30°-60°)	327.3	2.3	B1/1000		
BH (60°-80°)	135.1	1.0	B1/500		G1/500
BVH (80°-90°)	1.0	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°	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6
2.5°	1783.2	1743.1	1752.4	1726.4	1679.5	1583.3	1501.2	1423.5	1332.8	1329.7	1255.0
5°	2404.5	2370.6	2366.3	2313.8	2228.7	2065.2	1906.0	1724.6	1522.2	1507.4	1348.8
7.5°	2968.5	2941.4	2931.5	2869.2	2710.6	2551.4	2344.1	2077.5	1761.0	1733.8	1475.3
10°	3401.7	3388.7	3391.2	3346.7	3211.0	3062.9	2790.8	2450.8	2031.9	1989.9	1627.1
12.5°	3729.9	3733.0	3755.2	3728.1	3652.2	3542.3	3251.7	2848.8	2331.7	2274.4	1800.5
15°	3971.2	3986.6	4027.3	4061.3	4055.7	3960.7	3694.1	3253.0	2650.1	2586.6	1993.6
17.5°	4127.3	4144.6	4203.8	4279.1	4348.2	4326.0	4121.1	3642.9	2972.2	2898.8	2200.3
20°	4264.3	4284.6	4348.2	4447.5	4576.5	4604.2	4469.7	4021.2	3293.7	3204.2	2413.8
22.5°	4561.1	4560.4	4599.3	4657.3	4780.1	4851.7	4766.5	4372.2	3611.5	3518.3	2631.6
25°	5097.9	5077.5	5063.9	5018.3	5045.4	5089.8	5042.3	4700.5	3931.1	3836.7	2852.5
27.5°	5735.9	5748.2	5638.4	5515.6	5420.6	5374.9	5297.2	5004.7	4238.3	4134.7	3068.5
30°	6409.0	6412.7	6283.2	6126.4	5917.3	5743.9	5609.4	5295.3	4554.3	4441.3	3278.3
32.5°	7016.2	6992.1	6863.8	6650.3	6386.2	6191.2	5911.7	5619.9	4888.7	4779.5	3511.5
35°	7497.5	7469.1	7313.0	7118.6	6844.7	6648.5	6312.2	5943.8	5240.4	5133.7	3745.3
37.5°	7849.2	7815.9	7655.4	7455.5	7219.2	7105.0	6776.8	6296.1	5624.2	5509.4	3991.5
40°	7971.4	7942.4	7841.8	7695.5	7505.5	7479.6	7269.8	6701.5	6041.9	5919.7	4270.4
42.5°	7898.5	7870.2	7834.4	7785.0	7706.0	7730.7	7735.0	7163.7	6505.9	6385.6	4578.3
45°	7609.8	7584.5	7621.5	7693.7	7791.8	7914.0	8159.5	7660.4	7024.2	6895.9	4934.4
47.5°	7184.6	7166.1	7268.6	7448.7	7735.6	8072.5	8547.7	8182.4	7606.1	7487.0	5378.6
50°	6580.0	6576.9	6781.7	7110.6	7551.8	8149.1	8948.7	8776.0	8414.4	8289.1	5996.3
52.5°	5638.4	5644.5	6047.5	6573.8	7229.1	8097.2	9206.6	9538.6	9354.7	9224.5	6531.2
55°	4741.8	4778.9	5064.5	5823.5	6734.2	7904.7	9295.5	9894.6	9873.6	9750.2	6828.6
57.5°	3863.8	3931.1	4206.3	4915.2	6011.7	7461.1	9246.7	10048.9	10259.9	10165.5	7221.0
60°	2912.4	2943.2	3260.4	3923.0	5084.3	6651.5	8893.2	10132.8	10788.1	10722.7	7790.6
62.5°	1852.9	1930.1	2211.4	2850.7	3958.8	5527.3	8297.1	10131.6	11448.9	11484.7	8525.4
65°	976.1	1066.2	1215.5	1766.5	2720.5	4271.7	7400.6	10036.5	12259.7	12309.7	9099.9
67.5°	526.3	552.2	631.2	916.9	1577.7	2893.8	6083.3	9567.6	12729.2	12795.3	9180.1
70°	385.0	399.2	428.8	507.2	794.1	1680.8	4438.9	8504.5	12123.9	12099.3	8156.5
72.5°	295.6	317.8	340.0	371.4	456.6	897.2	2763.7	6659.6	9673.7	9510.8	6096.8
75°	233.2	236.9	268.4	296.8	342.4	510.9	1227.3	3878.6	5904.3	5518.7	3161.6
77.5°	186.3	188.8	207.3	232.0	275.2	335.7	380.1	1525.9	1885.0	1682.0	686.1
80°	110.4	116.6	154.3	178.9	228.3	211.6	138.8	331.3	294.3	266.6	115.4
82.5°	61.7	66.6	87.0	141.3	159.2	101.2	69.1	89.5	69.1	67.3	32.7
85°	0.0	3.1	56.1	87.6	64.8	22.2	29.0	29.6	20.4	19.1	13.0
87.5°	0.0	0.0	17.3	16.7	2.5	3.7	6.8	9.9	8.0	8.0	6.8
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°	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6	1194.6
2.5°	1218.0	1184.7	1121.8	1060.0	1008.2	965.6	927.4	912.0	899.6	897.8	887.9
5°	1272.3	1205.1	1084.7	986.0	920.0	873.1	833.0	808.3	789.2	781.8	775.0
7.5°	1354.4	1252.6	1079.8	966.3	887.3	808.3	734.3	654.0	604.1	584.9	573.8
10°	1454.3	1315.5	1098.3	960.7	822.5	655.9	533.1	431.3	390.0	376.4	372.7
12.5°	1570.9	1393.9	1130.4	926.2	684.3	465.9	367.7	333.2	323.9	319.6	319.6
15°	1704.8	1479.6	1153.2	826.2	506.0	352.3	318.4	302.3	292.5	286.9	287.5
17.5°	1841.8	1563.5	1142.1	681.2	373.3	313.4	288.2	270.9	257.3	251.7	250.5
20°	1980.0	1641.3	1080.4	507.2	315.9	284.4	256.1	236.9	223.4	217.8	216.6
22.5°	2123.2	1707.3	971.8	372.1	283.8	252.4	224.6	205.5	192.5	187.6	185.1
25°	2262.6	1761.0	820.0	301.1	253.6	222.1	195.6	177.7	166.0	161.0	160.4
27.5°	2392.8	1794.9	644.2	265.9	227.1	195.0	170.9	154.9	145.0	141.3	140.7
30°	2510.1	1798.0	476.3	240.0	203.6	171.5	149.3	135.1	126.5	122.8	121.6
32.5°	2628.5	1772.1	346.8	216.6	182.0	151.2	129.6	118.5	112.3	109.2	109.2
35°	2740.2	1712.2	270.3	196.2	161.0	131.4	114.1	106.1	102.4	99.3	99.3
37.5°	2849.4	1626.5	229.5	178.3	141.3	114.8	100.6	95.6	92.6	89.5	89.5
40°	2960.5	1518.5	208.6	161.7	125.3	101.8	89.5	85.1	82.1	79.6	79.0
42.5°	3096.9	1393.9	195.0	146.2	111.1	90.1	79.0	74.0	71.6	69.1	67.9
45°	3254.8	1286.5	183.9	130.8	99.3	80.2	68.5	63.6	59.9	56.8	56.1
47.5°	3482.5	1208.8	169.1	114.1	88.2	69.7	59.2	53.7	48.1	45.0	44.4
50°	3773.1	1144.6	149.9	99.3	77.1	59.2	49.4	42.6	37.6	34.6	34.6
52.5°	3917.5	1060.7	132.7	86.4	64.8	50.0	40.1	32.1	29.6	26.5	26.5
55°	3975.5	996.5	115.4	73.4	53.7	41.3	31.5	24.7	22.8	21.0	20.4
57.5°	4138.4	978.0	100.6	62.3	44.4	32.7	24.1	18.5	17.3	14.8	14.8
60°	4400.6	987.2	87.0	53.1	35.8	25.3	17.9	14.2	13.0	10.5	10.5
62.5°	4683.8	975.5	73.4	45.7	27.8	18.5	12.3	10.5	10.5	6.2	5.6
65°	4738.1	868.8	62.9	37.6	21.6	13.6	8.0	6.8	9.3	1.2	0.0
67.5°	4397.5	673.8	54.3	29.0	16.0	10.5	6.2	3.1	8.0	0.0	0.0
70°	3516.4	428.2	43.8	21.0	12.3	8.6	4.9	1.2	6.2	0.0	0.0
72.5°	2486.6	248.7	34.6	14.8	10.5	6.8	3.7	0.0	3.7	0.0	0.0
75°	1257.5	132.7	21.6	11.1	8.0	4.9	2.5	0.0	0.6	0.0	0.0
77.5°	272.1	61.7	13.6	8.0	5.6	3.1	1.2	0.0	0.0	0.0	0.0
80°	59.2	27.1	8.6	4.9	3.1	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	21.6	14.2	4.3	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	7.4	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	2.5	0.6	0.6	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)