

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: P321249

Luminaire Tested: **GAN-SA5C-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321249
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-SA5C-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA 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: 25986 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

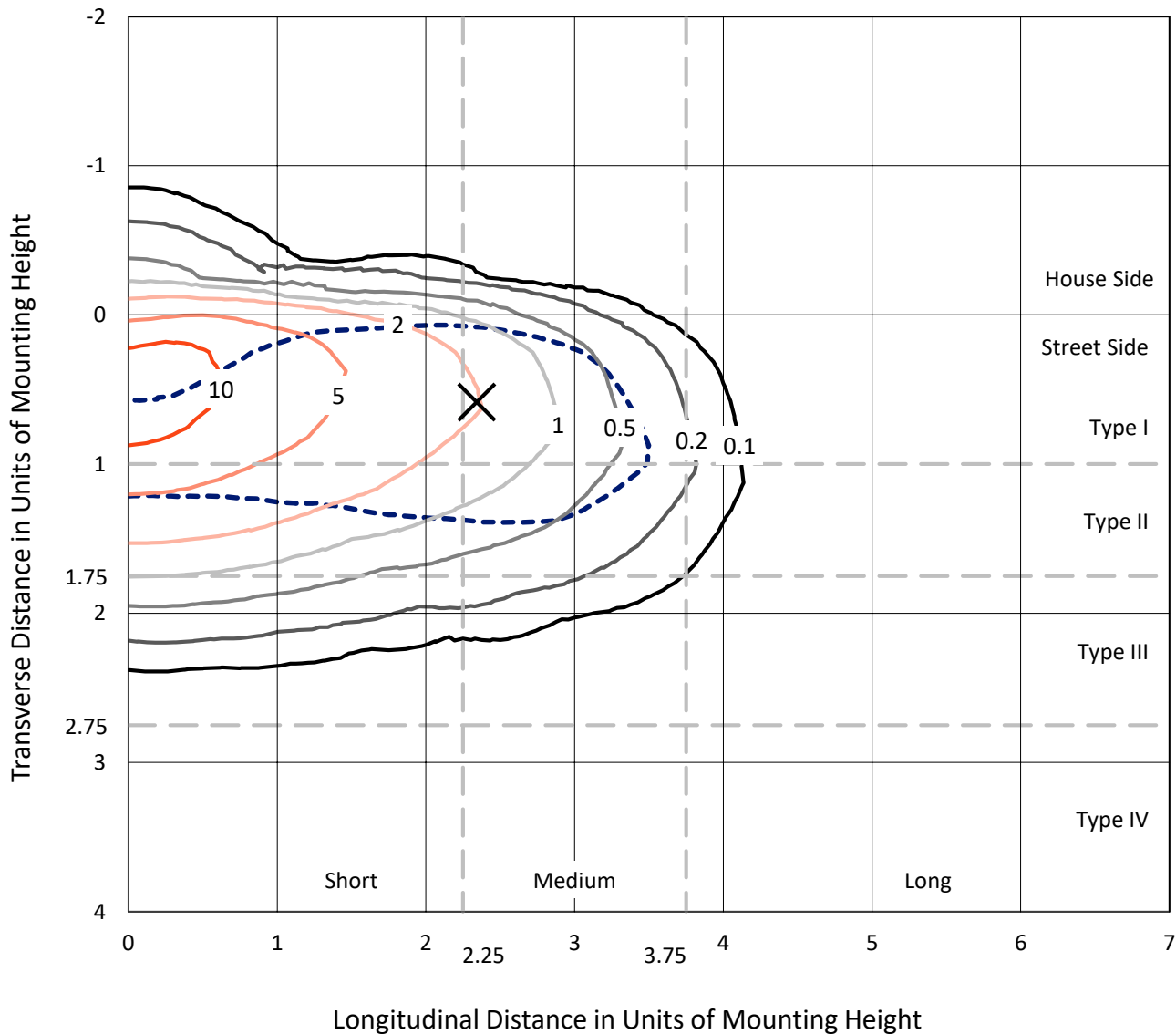
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

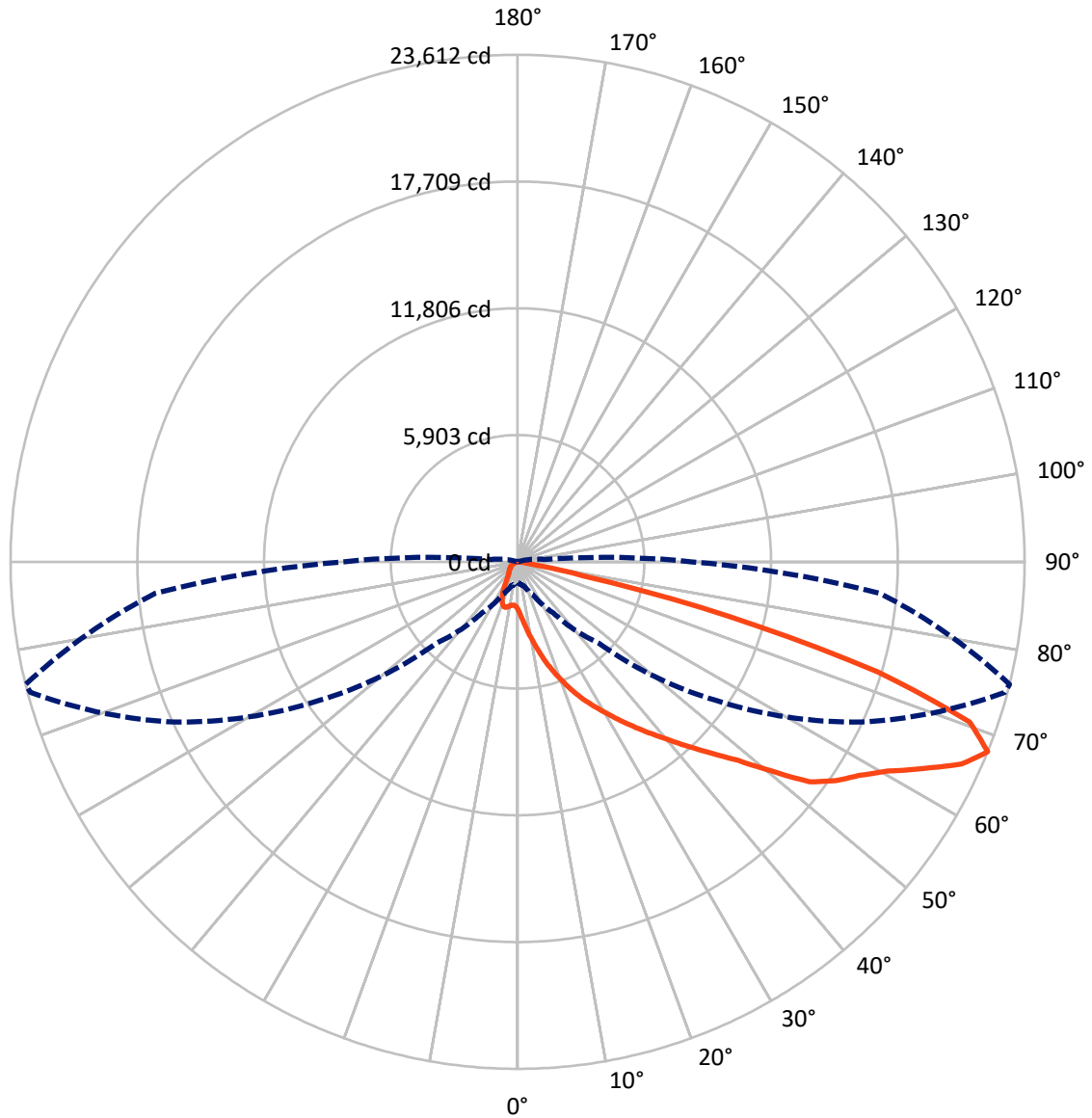
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	1290.4	0.0	1290.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	24695.6	0.0	24695.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	25986.0	0.0	25986.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.1	1.1
10°-20°	1086.6	4.2
20°-30°	2210.9	8.5
30°-40°	3837.4	14.8
40°-50°	5421.7	20.9
50°-60°	6148.5	23.7
60°-70°	5099.6	19.6
70°-80°	1847.2	7.1
80°-90°	59.9	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°	25986.0	100.0
0°-180°	25986.0	100.0

Coefficient of Utilization



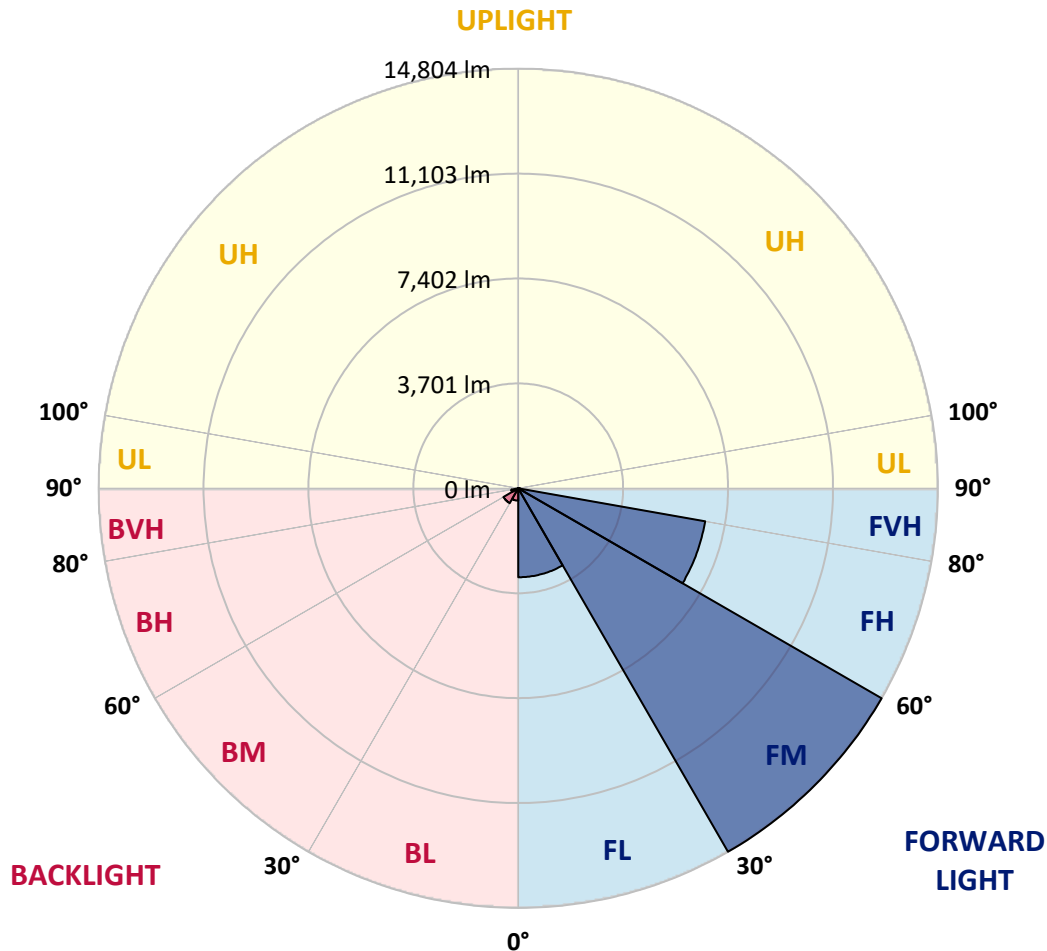
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3136.4	12.1			
FM (30°-60°)	14803.7	57.0			
FH (60°-80°)	6697.5	25.8			G3/7500
FVH (80°-90°)	58.0	0.2			G1/100
BL (0°-30°)	435.2	1.7	B1/500		
BM (30°-60°)	603.9	2.3	B1/1000		
BH (60°-80°)	249.4	1.0	B1/500		G1/500
BVH (80°-90°)	1.9	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4
2.5°	3290.6	3216.6	3233.7	3185.9	3099.3	2921.7	2770.3	2626.8	2459.4	2453.7	2316.0
5°	4437.2	4374.6	4366.6	4269.8	4112.7	3811.0	3517.2	3182.4	2809.0	2781.6	2489.0
7.5°	5477.9	5427.8	5409.6	5294.6	5002.0	4708.2	4325.6	3833.7	3249.6	3199.5	2722.4
10°	6277.2	6253.3	6257.8	6175.9	5925.4	5652.1	5150.0	4522.6	3749.5	3672.0	3002.5
12.5°	6882.9	6888.6	6929.6	6879.5	6739.5	6536.8	6000.5	5257.0	4302.8	4196.9	3322.5
15°	7328.1	7356.6	7431.8	7494.4	7484.1	7308.8	6816.9	6002.8	4890.4	4773.1	3678.9
17.5°	7616.2	7648.1	7757.4	7896.3	8023.8	7982.9	7604.8	6722.4	5484.7	5349.2	4060.3
20°	7869.0	7906.6	8023.8	8207.2	8445.1	8496.4	8248.2	7420.4	6077.9	5912.8	4454.3
22.5°	8416.7	8415.5	8487.3	8594.3	8820.9	8953.0	8795.8	8068.3	6664.3	6492.4	4856.2
25°	9407.3	9369.7	9344.6	9260.4	9310.5	9392.5	9304.8	8674.0	7254.1	7079.9	5263.8
27.5°	10584.6	10607.4	10404.7	10178.1	10002.8	9918.5	9775.0	9235.3	7821.2	7629.9	5662.3
30°	11826.8	11833.7	11594.6	11305.3	10919.4	10599.4	10351.2	9771.6	8404.1	8195.8	6049.5
32.5°	12947.2	12902.8	12666.0	12272.0	11784.7	11424.9	10909.1	10370.5	9021.3	8819.7	6479.9
35°	13835.4	13783.0	13494.9	13136.2	12630.7	12268.6	11648.1	10968.3	9670.3	9473.3	6911.4
37.5°	14484.4	14422.9	14126.8	13757.9	13321.8	13111.2	12505.4	11618.5	10378.5	10166.7	7365.7
40°	14709.8	14656.3	14470.7	14200.8	13850.2	13802.3	13415.2	12366.5	11149.4	10923.9	7880.4
42.5°	14575.5	14523.1	14457.0	14365.9	14220.2	14265.8	14273.7	13219.4	12005.6	11783.6	8448.5
45°	14042.6	13995.9	14064.2	14197.4	14378.5	14603.9	15057.1	14135.9	12962.0	12725.2	9105.5
47.5°	13258.1	13223.9	13412.9	13745.4	14274.9	14896.5	15773.3	15099.2	14035.8	13816.0	9925.3
50°	12142.2	12136.5	12514.6	13121.4	13935.6	15037.7	16513.4	16194.6	15527.3	15296.2	11065.1
52.5°	10404.7	10416.1	11159.6	12130.8	13340.1	14942.1	16989.3	17601.9	17262.6	17022.3	12052.3
55°	8750.3	8818.6	9345.8	10746.3	12426.9	14586.8	17153.3	18258.9	18220.2	17992.4	12601.1
57.5°	7130.0	7254.1	7762.0	9070.2	11093.6	13768.2	17063.3	18543.5	18932.9	18758.7	13325.3
60°	5374.3	5431.2	6016.5	7239.3	9382.2	12274.3	16410.9	18698.4	19907.6	19786.9	14376.2
62.5°	3419.3	3561.6	4080.8	5260.4	7305.4	10199.7	15311.0	18696.1	21127.1	21193.1	15732.3
65°	1801.3	1967.5	2243.1	3259.9	5020.2	7882.7	13656.6	18520.8	22623.2	22715.4	16792.3
67.5°	971.2	1019.1	1164.8	1692.0	2911.4	5340.1	11225.6	17655.4	23489.7	23611.5	16940.4
70°	710.5	736.7	791.3	935.9	1465.4	3101.6	8191.2	15693.6	22372.7	22327.2	15051.4
72.5°	545.4	586.4	627.4	685.4	842.6	1655.6	5099.9	12289.1	17851.3	17550.7	11250.7
75°	430.4	437.2	495.3	547.7	631.9	942.8	2264.7	7157.4	10895.4	10183.8	5834.3
77.5°	343.9	348.4	382.6	428.1	507.8	619.4	701.4	2815.8	3478.5	3103.9	1266.1
80°	203.8	215.2	284.7	330.2	421.3	390.5	256.2	611.4	543.1	491.9	212.9
82.5°	113.9	123.0	160.5	260.7	293.8	186.7	127.5	165.1	127.5	124.1	60.3
85°	0.0	5.7	103.6	161.7	119.6	41.0	53.5	54.7	37.6	35.3	23.9
87.5°	0.0	0.0	31.9	30.7	4.6	6.8	12.5	18.2	14.8	14.8	12.5
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°	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4	2204.4
2.5°	2247.6	2186.1	2070.0	1956.1	1860.5	1781.9	1711.3	1682.9	1660.1	1656.7	1638.5
5°	2347.8	2223.7	2001.7	1819.5	1697.7	1611.1	1537.1	1491.6	1456.3	1442.6	1430.1
7.5°	2499.3	2311.4	1992.6	1783.1	1637.3	1491.6	1355.0	1206.9	1114.7	1079.4	1058.9
10°	2683.7	2427.5	2026.7	1772.8	1517.8	1210.4	983.8	795.9	719.6	694.6	687.7
12.5°	2898.9	2572.1	2085.9	1709.1	1262.7	859.7	678.6	614.9	597.8	589.8	589.8
15°	3146.0	2730.4	2128.1	1524.6	933.7	650.2	587.5	557.9	539.7	529.5	530.6
17.5°	3398.8	2885.3	2107.6	1257.0	688.9	578.4	531.7	499.9	474.8	464.6	462.3
20°	3653.8	3028.7	1993.7	935.9	583.0	524.9	472.5	437.2	412.2	401.9	399.7
22.5°	3918.0	3150.6	1793.3	686.6	523.8	465.7	414.5	379.2	355.2	346.1	341.6
25°	4175.3	3249.6	1513.2	555.6	468.0	409.9	360.9	327.9	306.3	297.2	296.0
27.5°	4415.6	3312.2	1188.7	490.7	419.0	359.8	315.4	285.8	267.6	260.7	259.6
30°	4631.9	3317.9	879.0	442.9	375.7	316.5	275.5	249.4	233.4	226.6	224.3
32.5°	4850.5	3270.1	639.9	399.7	335.9	279.0	239.1	218.6	207.2	201.5	201.5
35°	5056.6	3159.7	498.7	362.1	297.2	242.5	210.6	195.8	189.0	183.3	183.3
37.5°	5258.1	3001.4	423.6	329.1	260.7	211.8	185.6	176.5	170.8	165.1	165.1
40°	5463.1	2802.1	384.9	298.3	231.1	187.9	165.1	157.1	151.4	146.9	145.7
42.5°	5714.7	2572.1	359.8	269.9	205.0	166.2	145.7	136.6	132.1	127.5	125.2
45°	6006.2	2374.0	339.3	241.4	183.3	148.0	126.4	117.3	110.4	104.8	103.6
47.5°	6426.4	2230.6	312.0	210.6	162.8	128.7	109.3	99.1	88.8	83.1	82.0
50°	6962.7	2112.1	276.7	183.3	142.3	109.3	91.1	78.6	69.5	63.8	63.8
52.5°	7229.1	1957.3	244.8	159.4	119.6	92.2	74.0	59.2	54.7	49.0	49.0
55°	7336.1	1838.9	212.9	135.5	99.1	76.3	58.1	45.5	42.1	38.7	37.6
57.5°	7636.7	1804.7	185.6	115.0	82.0	60.3	44.4	34.2	31.9	27.3	27.3
60°	8120.6	1821.8	160.5	97.9	66.0	46.7	33.0	26.2	23.9	19.4	19.4
62.5°	8643.3	1800.2	135.5	84.3	51.2	34.2	22.8	19.4	19.4	11.4	10.2
65°	8743.5	1603.2	116.1	69.5	39.9	25.0	14.8	12.5	17.1	2.3	0.0
67.5°	8114.9	1243.4	100.2	53.5	29.6	19.4	11.4	5.7	14.8	0.0	0.0
70°	6489.0	790.2	80.8	38.7	22.8	15.9	9.1	2.3	11.4	0.0	0.0
72.5°	4588.6	458.9	63.8	27.3	19.4	12.5	6.8	0.0	6.8	0.0	0.0
75°	2320.5	244.8	39.9	20.5	14.8	9.1	4.6	0.0	1.1	0.0	0.0
77.5°	502.1	113.9	25.0	14.8	10.2	5.7	2.3	0.0	0.0	0.0	0.0
80°	109.3	50.1	15.9	9.1	5.7	3.4	0.0	0.0	0.0	0.0	0.0
82.5°	39.9	26.2	8.0	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.6	13.7	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.4	4.6	1.1	1.1	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)