

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: P321248

Luminaire Tested: **GAN-SA4C-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321248
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-SA4C-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 20974 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

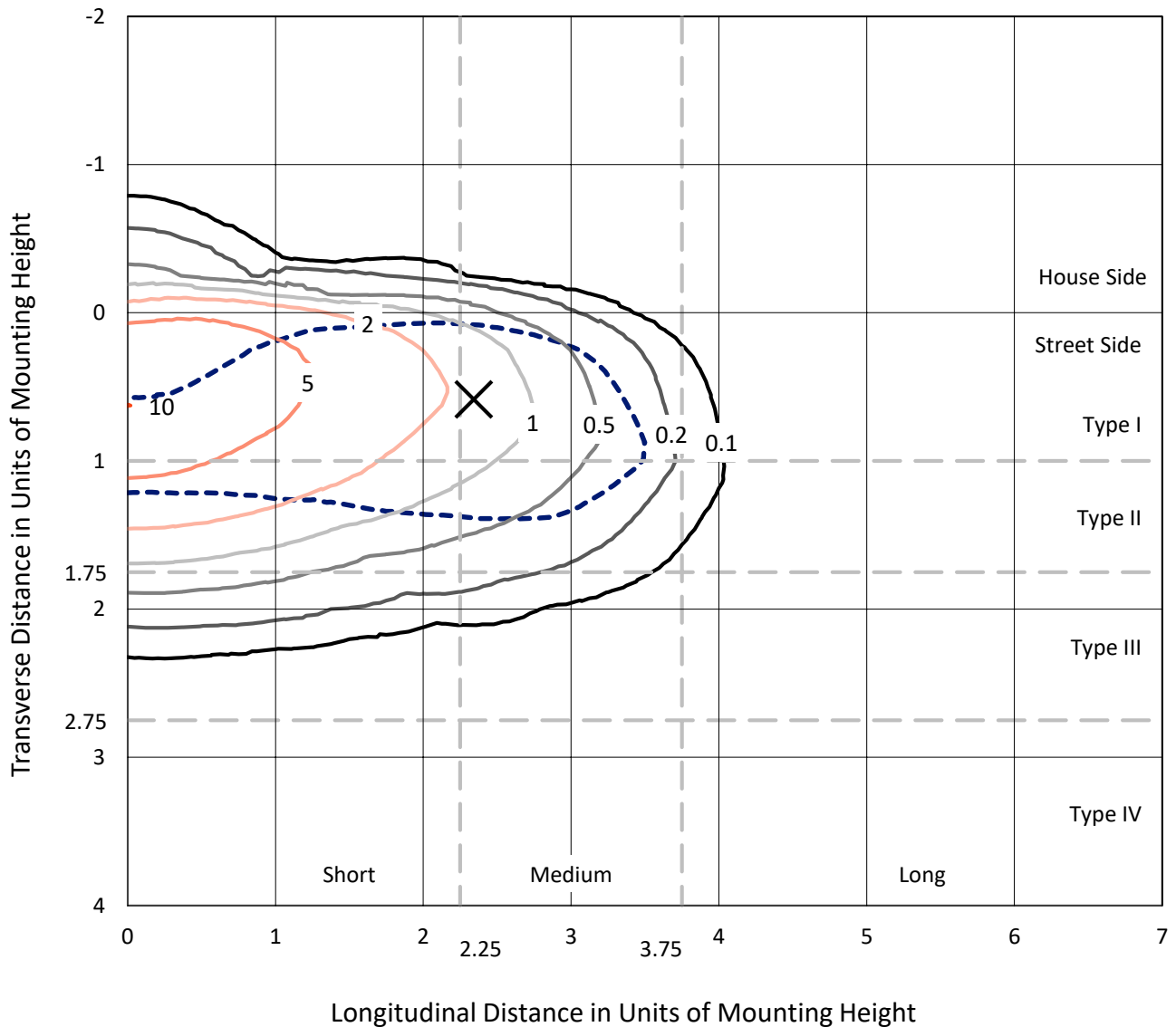
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

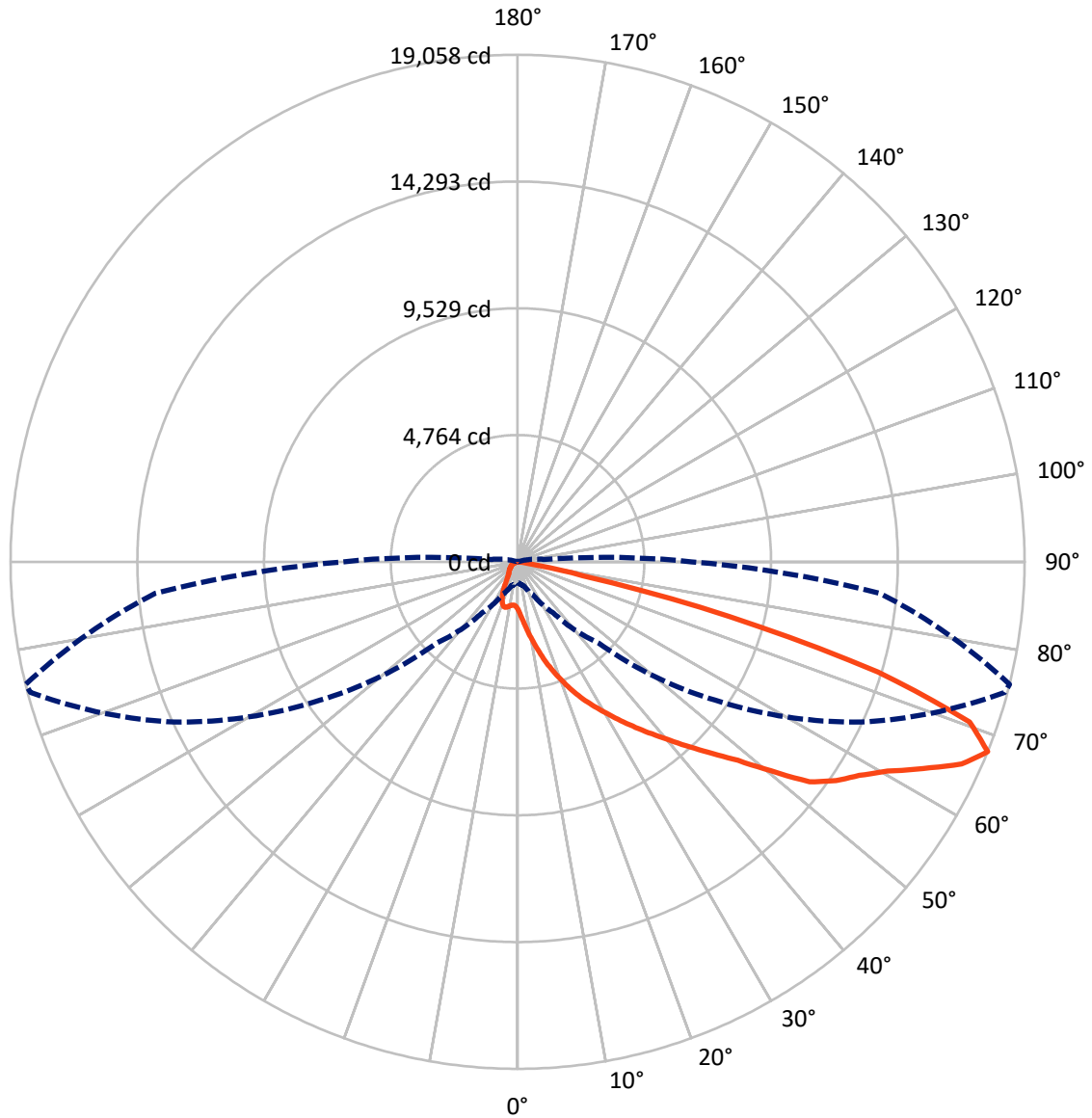
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	1041.5	0.0	1041.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	19932.5	0.0	19932.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	20974.0	0.0	20974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.2	1.1
10°-20°	877.0	4.2
20°-30°	1784.5	8.5
30°-40°	3097.3	14.8
40°-50°	4376.0	20.9
50°-60°	4962.6	23.7
60°-70°	4116.0	19.6
70°-80°	1490.9	7.1
80°-90°	48.3	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°	20974.0	100.0
0°-180°	20974.0	100.0

Coefficient of Utilization

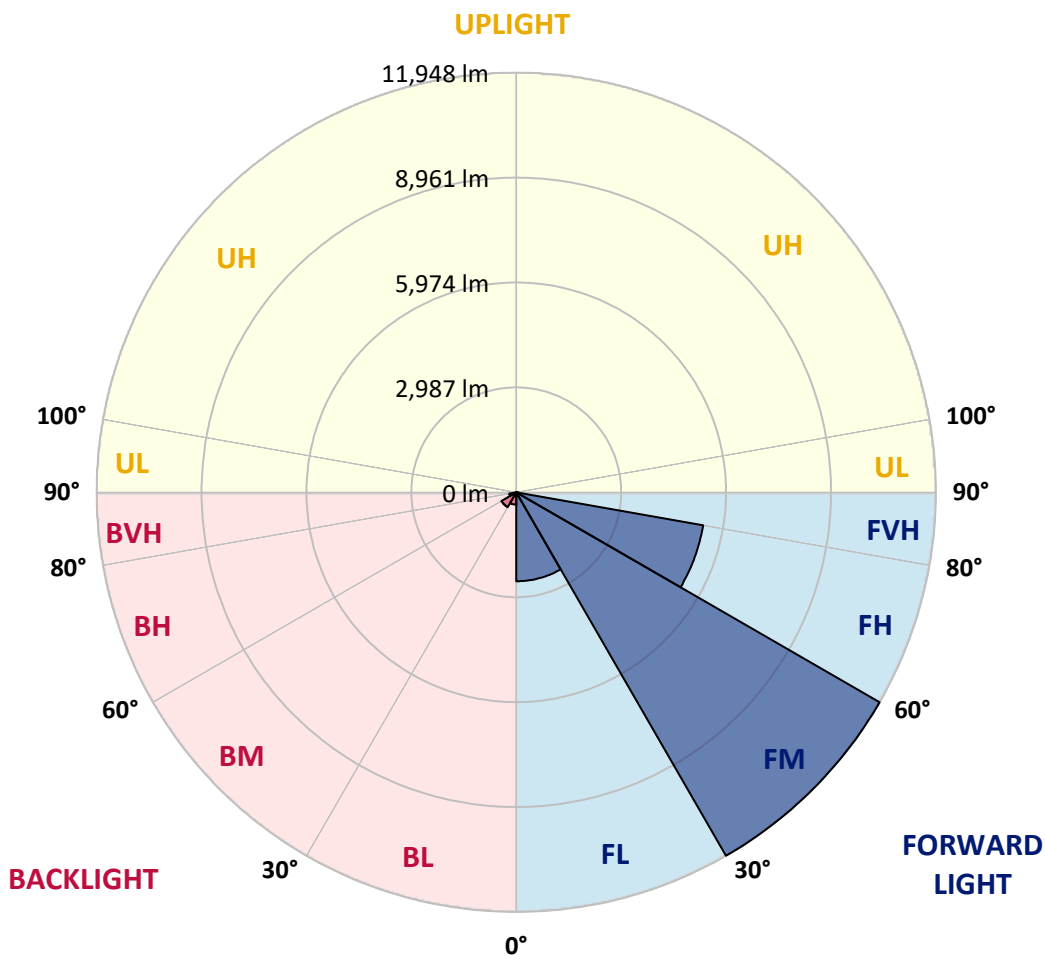


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2531.5	12.1			
FM (30°-60°)	11948.5	57.0			
FH (60°-80°)	5405.7	25.8			G3/7500
FVH (80°-90°)	46.8	0.2			G1/100
BL (0°-30°)	351.3	1.7	B1/500		
BM (30°-60°)	487.5	2.3	B1/1000		
BH (60°-80°)	201.3	1.0	B1/500		G1/500
BVH (80°-90°)	1.5	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°	1779.2	1779.2	1779.2	1779.2	1779.2	1779.2	1779.2	1779.2	1779.2	1779.2	1779.2
2.5°	2655.9	2596.2	2610.0	2571.4	2501.5	2358.2	2236.0	2120.2	1985.1	1980.5	1869.3
5°	3581.4	3530.8	3524.4	3446.3	3319.5	3075.9	2838.8	2568.6	2267.2	2245.1	2009.0
7.5°	4421.4	4380.9	4366.2	4273.4	4037.2	3800.1	3491.3	3094.3	2622.9	2582.4	2197.4
10°	5066.5	5047.2	5050.9	4984.7	4782.5	4562.0	4156.7	3650.3	3026.3	2963.8	2423.4
12.5°	5555.4	5560.0	5593.1	5552.7	5439.6	5276.0	4843.2	4243.1	3472.9	3387.5	2681.7
15°	5914.7	5937.7	5998.4	6048.9	6040.7	5899.1	5502.1	4845.0	3947.1	3852.5	2969.3
17.5°	6147.3	6173.0	6261.2	6373.3	6476.3	6443.2	6138.1	5425.8	4426.9	4317.5	3277.2
20°	6351.3	6381.6	6476.3	6624.2	6816.3	6857.6	6657.3	5989.2	4905.7	4772.4	3595.2
22.5°	6793.3	6792.4	6850.3	6936.7	7119.6	7226.2	7099.3	6512.1	5379.0	5240.2	3919.6
25°	7592.9	7562.5	7542.3	7474.3	7514.7	7580.9	7510.1	7001.0	5855.0	5714.4	4248.6
27.5°	8543.1	8561.5	8397.9	8215.0	8073.5	8005.5	7889.7	7454.1	6312.7	6158.3	4570.2
30°	9545.8	9551.3	9358.3	9124.8	8813.3	8555.1	8354.7	7886.9	6783.2	6615.0	4882.7
32.5°	10450.1	10414.2	10223.1	9905.1	9511.7	9221.3	8805.0	8370.3	7281.3	7118.6	5230.1
35°	11166.9	11124.6	10892.1	10602.6	10194.6	9902.3	9401.5	8852.8	7805.1	7646.2	5578.4
37.5°	11690.7	11641.1	11402.2	11104.4	10752.4	10582.4	10093.5	9377.6	8376.8	8205.8	5945.1
40°	11872.7	11829.5	11679.7	11461.9	11178.8	11140.2	10827.8	9981.4	8998.9	8817.0	6360.5
42.5°	11764.2	11722.0	11668.7	11595.1	11477.5	11514.3	11520.7	10669.7	9690.0	9510.8	6819.1
45°	11334.1	11296.5	11351.6	11459.1	11605.3	11787.2	12153.0	11409.5	10462.0	10270.9	7349.3
47.5°	10700.9	10673.4	10825.9	11094.3	11521.6	12023.4	12731.0	12187.0	11328.6	11151.3	8011.0
50°	9800.3	9795.7	10100.8	10590.7	11247.8	12137.4	13328.4	13071.1	12532.5	12346.0	8930.9
52.5°	8397.9	8407.1	9007.2	9791.1	10767.1	12060.2	13712.5	14207.0	13933.1	13739.2	9727.7
55°	7062.6	7117.7	7543.2	8673.6	10030.1	11773.4	13844.9	14737.2	14706.0	14522.2	10170.7
57.5°	5754.8	5855.0	6264.9	7320.8	8953.9	11112.7	13772.3	14967.0	15281.3	15140.7	10755.2
60°	4337.7	4383.7	4856.0	5843.1	7572.6	9906.9	13245.7	15092.0	16068.0	15970.5	11603.4
62.5°	2759.8	2874.7	3293.7	4245.8	5896.4	8232.5	12357.9	15090.1	17052.2	17105.5	12698.0
65°	1453.9	1588.0	1810.4	2631.1	4051.9	6362.3	11022.6	14948.6	18259.8	18334.2	13553.6
67.5°	783.9	822.5	940.1	1365.6	2349.9	4310.2	9060.5	14250.2	18959.2	19057.5	13673.0
70°	573.5	594.6	638.7	755.4	1182.8	2503.4	6611.4	12666.7	18057.6	18020.9	12148.4
72.5°	440.2	473.3	506.4	553.2	680.1	1336.2	4116.2	9918.9	14408.2	14165.6	9080.7
75°	347.4	352.9	399.8	442.0	510.1	760.9	1827.9	5776.9	8794.0	8219.6	4709.0
77.5°	277.5	281.2	308.8	345.5	409.9	499.9	566.1	2272.7	2807.6	2505.2	1021.9
80°	164.5	173.7	229.8	266.5	340.0	315.2	206.8	493.5	438.4	397.0	171.9
82.5°	91.9	99.3	129.6	210.5	237.1	150.7	102.9	133.3	102.9	100.2	48.7
85°	0.0	4.6	83.6	130.5	96.5	33.1	43.2	44.1	30.3	28.5	19.3
87.5°	0.0	0.0	25.7	24.8	3.7	5.5	10.1	14.7	11.9	11.9	10.1
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°	1779.2	1779.2	1779.2	1779.2	1779.2	1779.2	1779.2	1779.2	1779.2	1779.2	1779.2
2.5°	1814.1	1764.5	1670.8	1578.9	1501.7	1438.3	1381.3	1358.3	1339.9	1337.2	1322.5
5°	1895.0	1794.8	1615.6	1468.6	1370.2	1300.4	1240.7	1203.9	1175.4	1164.4	1154.3
7.5°	2017.2	1865.6	1608.3	1439.2	1321.5	1203.9	1093.6	974.2	899.7	871.2	854.7
10°	2166.1	1959.3	1635.8	1430.9	1225.0	976.9	794.0	642.4	580.8	560.6	555.1
12.5°	2339.8	2076.0	1683.6	1379.4	1019.2	693.9	547.7	496.3	482.5	476.0	476.0
15°	2539.2	2203.8	1717.6	1230.6	753.6	524.8	474.2	450.3	435.6	427.3	428.3
17.5°	2743.2	2328.8	1701.1	1014.6	556.0	466.9	429.2	403.4	383.2	375.0	373.1
20°	2949.1	2444.6	1609.2	755.4	470.5	423.7	381.4	352.9	332.7	324.4	322.6
22.5°	3162.3	2542.9	1447.4	554.2	422.7	375.9	334.5	306.0	286.7	279.4	275.7
25°	3370.0	2622.9	1221.4	448.5	377.7	330.8	291.3	264.7	247.2	239.9	238.9
27.5°	3563.9	2673.4	959.4	396.1	338.2	290.4	254.6	230.7	216.0	210.5	209.5
30°	3738.5	2678.0	709.5	357.5	303.3	255.5	222.4	201.3	188.4	182.9	181.0
32.5°	3915.0	2639.4	516.5	322.6	271.1	225.2	193.0	176.4	167.3	162.7	162.7
35°	4081.3	2550.3	402.5	292.2	239.9	195.7	170.0	158.1	152.6	148.0	148.0
37.5°	4244.0	2422.5	341.9	265.6	210.5	170.9	149.8	142.4	137.9	133.3	133.3
40°	4409.4	2261.7	310.6	240.8	186.6	151.6	133.3	126.8	122.2	118.6	117.6
42.5°	4612.5	2076.0	290.4	217.8	165.4	134.2	117.6	110.3	106.6	102.9	101.1
45°	4847.8	1916.1	273.9	194.8	148.0	119.5	102.0	94.7	89.1	84.5	83.6
47.5°	5186.9	1800.3	251.8	170.0	131.4	103.8	88.2	80.0	71.7	67.1	66.2
50°	5619.7	1704.8	223.3	148.0	114.9	88.2	73.5	63.4	56.1	51.5	51.5
52.5°	5834.8	1579.8	197.6	128.7	96.5	74.4	59.7	47.8	44.1	39.5	39.5
55°	5921.2	1484.2	171.9	109.4	80.0	61.6	46.9	36.8	34.0	31.2	30.3
57.5°	6163.8	1456.6	149.8	92.8	66.2	48.7	35.8	27.6	25.7	22.1	22.1
60°	6554.4	1470.4	129.6	79.0	53.3	37.7	26.7	21.1	19.3	15.6	15.6
62.5°	6976.2	1453.0	109.4	68.0	41.4	27.6	18.4	15.6	15.6	9.2	8.3
65°	7057.1	1294.0	93.7	56.1	32.2	20.2	11.9	10.1	13.8	1.8	0.0
67.5°	6549.8	1003.6	80.9	43.2	23.9	15.6	9.2	4.6	11.9	0.0	0.0
70°	5237.4	637.8	65.2	31.2	18.4	12.9	7.4	1.8	9.2	0.0	0.0
72.5°	3703.6	370.4	51.5	22.1	15.6	10.1	5.5	0.0	5.5	0.0	0.0
75°	1872.9	197.6	32.2	16.5	11.9	7.4	3.7	0.0	0.9	0.0	0.0
77.5°	405.3	91.9	20.2	11.9	8.3	4.6	1.8	0.0	0.0	0.0	0.0
80°	88.2	40.4	12.9	7.4	4.6	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	32.2	21.1	6.4	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.5	11.0	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	3.7	0.9	0.9	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)