

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: P321239

Luminaire Tested: **GAN-SA5B-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321239
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-SA5B-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 20995 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

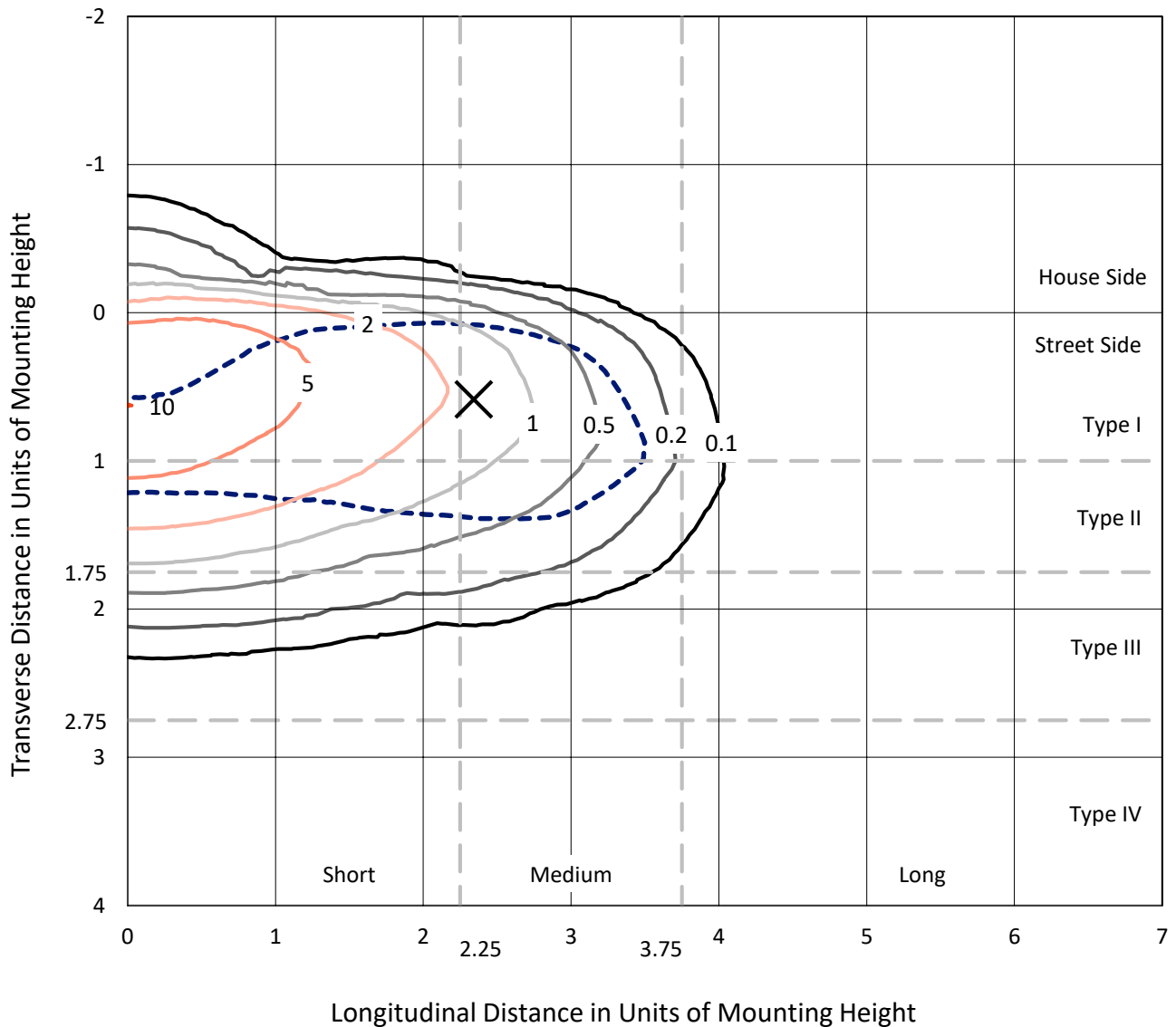
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

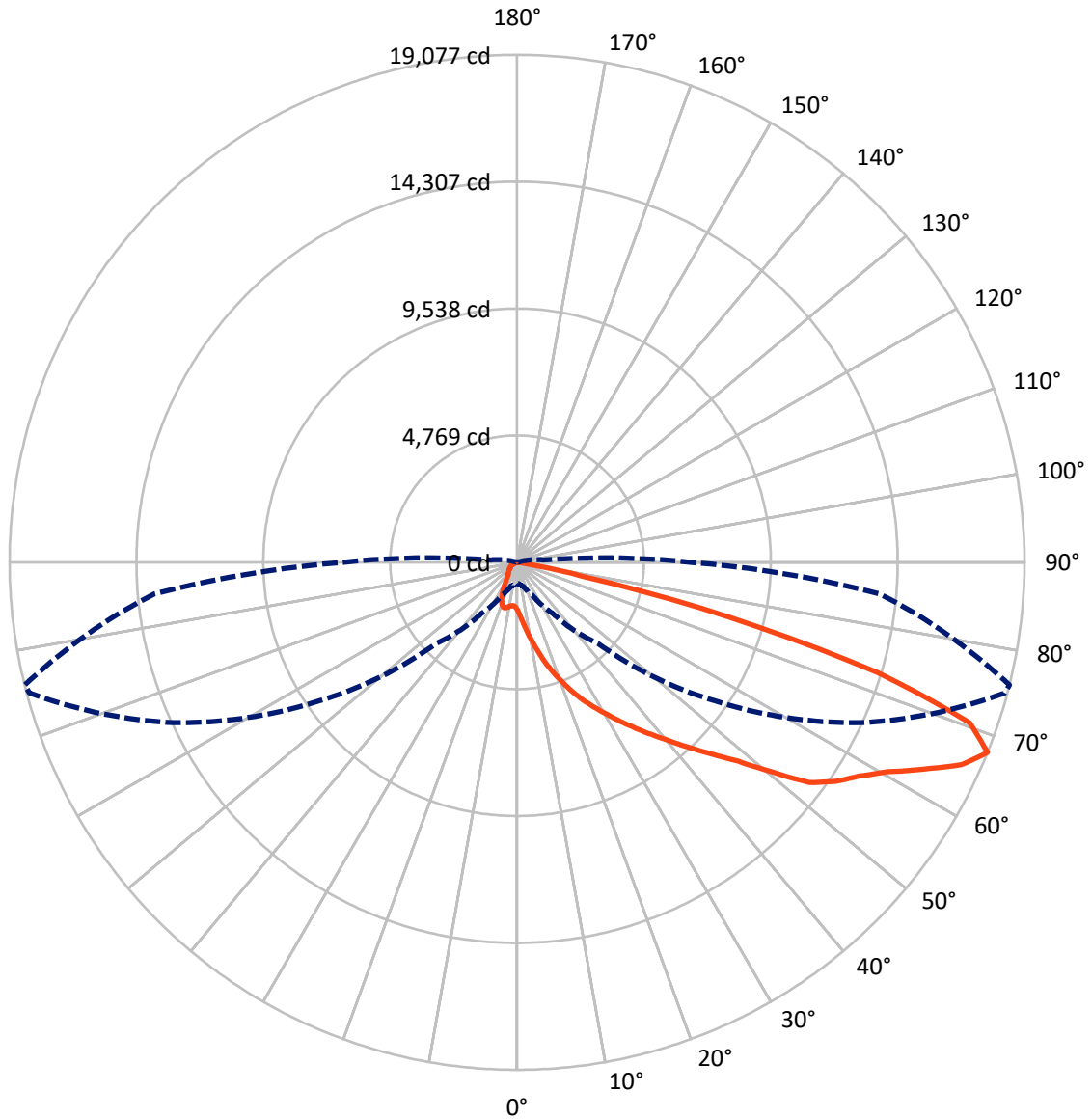
✕ Max cd
 - - - 1/2 Max cd



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	1042.6	0.0	1042.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	19952.5	0.0	19952.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	20995.0	0.0	20995.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.5	1.1
10°-20°	877.9	4.2
20°-30°	1786.3	8.5
30°-40°	3100.4	14.8
40°-50°	4380.4	20.9
50°-60°	4967.6	23.7
60°-70°	4120.2	19.6
70°-80°	1492.4	7.1
80°-90°	48.4	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°	20995.0	100.0
0°-180°	20995.0	100.0

Coefficient of Utilization

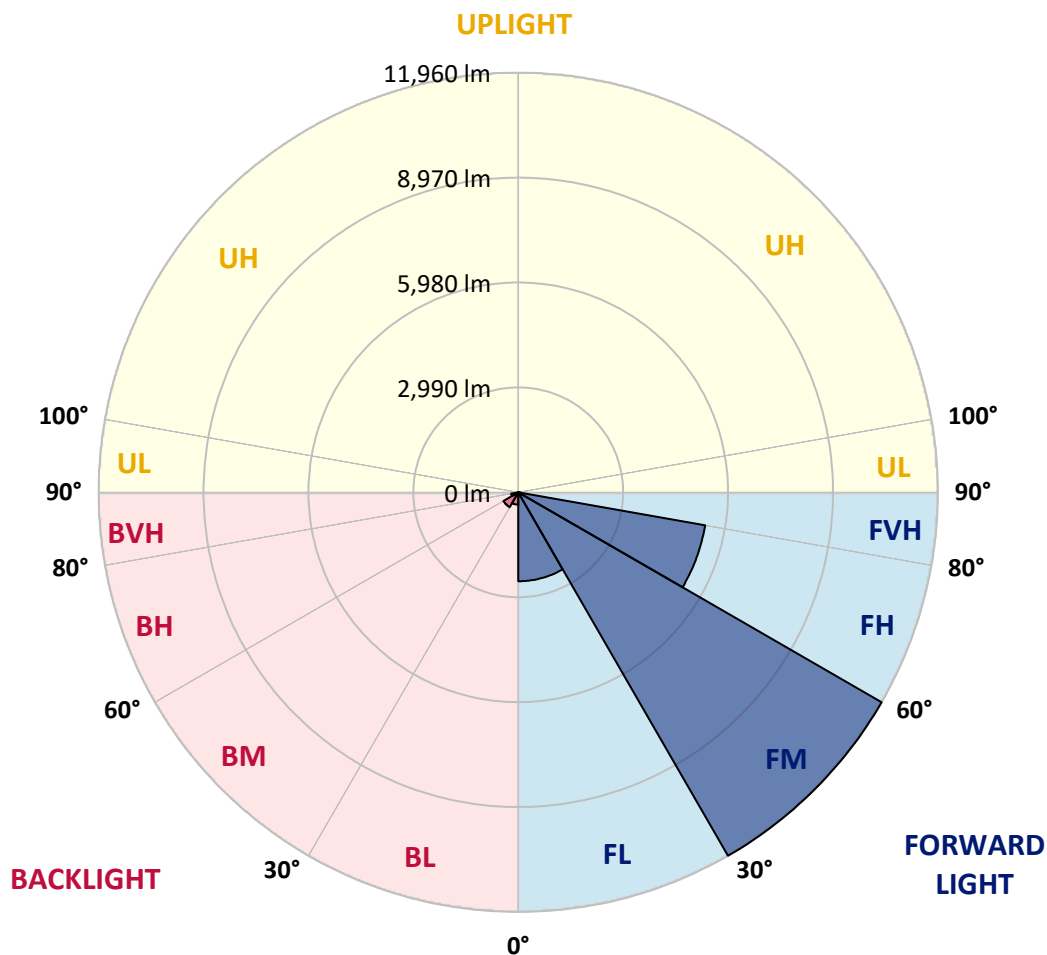


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2534.0	12.1			
FM (30°-60°)	11960.4	57.0			
FH (60°-80°)	5411.1	25.8			G3/7500
FVH (80°-90°)	46.9	0.2			G1/100
BL (0°-30°)	351.6	1.7	B1/500		
BM (30°-60°)	487.9	2.3	B1/1000		
BH (60°-80°)	201.5	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°	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0
2.5°	2658.6	2598.8	2612.6	2574.0	2504.0	2360.5	2238.2	2122.3	1987.0	1982.4	1871.1
5°	3585.0	3534.4	3527.9	3449.7	3322.8	3079.0	2841.7	2571.2	2269.5	2247.4	2011.0
7.5°	4425.8	4385.3	4370.6	4277.7	4041.3	3803.9	3494.8	3097.4	2625.5	2585.0	2199.6
10°	5071.6	5052.3	5055.9	4989.7	4787.3	4566.5	4160.8	3654.0	3029.3	2966.8	2425.9
12.5°	5561.0	5565.6	5598.7	5558.2	5445.1	5281.3	4848.0	4247.3	3476.4	3390.9	2684.4
15°	5920.7	5943.7	6004.4	6055.0	6046.7	5905.0	5507.6	4849.9	3951.1	3856.3	2972.3
17.5°	6153.4	6179.2	6267.5	6379.7	6482.7	6449.6	6144.2	5431.3	4431.3	4321.8	3280.5
20°	6357.6	6388.0	6482.7	6630.9	6823.1	6864.5	6664.0	5995.2	4910.6	4777.2	3598.8
22.5°	6800.1	6799.2	6857.2	6943.6	7126.7	7233.4	7106.5	6518.6	5384.3	5245.4	3923.5
25°	7600.5	7570.1	7549.9	7481.8	7522.3	7588.5	7517.7	7008.0	5860.9	5720.1	4252.8
27.5°	8551.7	8570.1	8406.3	8223.3	8081.6	8013.5	7897.6	7461.6	6319.0	6164.4	4574.8
30°	9555.3	9560.8	9367.6	9134.0	8822.1	8563.6	8363.1	7894.8	6790.0	6621.7	4887.6
32.5°	10460.5	10424.6	10233.3	9915.0	9521.3	9230.6	8813.8	8378.7	7288.6	7125.8	5235.3
35°	11178.1	11135.8	10903.0	10613.2	10204.8	9912.2	9410.9	8861.7	7813.0	7653.8	5584.0
37.5°	11702.4	11652.8	11413.6	11115.5	10763.2	10593.0	10103.6	9387.0	8385.2	8214.1	5951.0
40°	11884.6	11841.3	11691.4	11473.4	11190.0	11151.4	10838.6	9991.4	9008.0	8825.8	6366.8
42.5°	11776.0	11733.7	11680.3	11606.8	11489.0	11525.8	11532.2	10680.4	9699.7	9520.4	6825.9
45°	11345.5	11307.8	11363.0	11470.6	11616.9	11799.0	12165.2	11420.9	10472.5	10281.1	7356.7
47.5°	10711.7	10684.1	10836.8	11105.4	11533.2	12035.4	12743.8	12199.2	11340.0	11162.4	8019.0
50°	9810.1	9805.5	10110.9	10601.3	11259.0	12149.5	13341.7	13084.2	12545.1	12358.3	8939.9
52.5°	8406.3	8415.5	9016.2	9800.9	10777.9	12072.2	13726.3	14221.2	13947.1	13753.0	9737.5
55°	7069.7	7124.9	7550.8	8682.3	10040.1	11785.2	13858.7	14752.0	14720.7	14536.7	10180.9
57.5°	5760.6	5860.9	6271.2	7328.2	8962.9	11123.8	13786.1	14982.0	15296.6	15155.8	10765.9
60°	4342.1	4388.1	4860.9	5848.9	7580.2	9916.8	13258.9	15107.1	16084.1	15986.5	11615.0
62.5°	2762.5	2877.5	3297.0	4250.1	5902.3	8240.7	12370.3	15105.2	17069.3	17122.7	12710.7
65°	1455.3	1589.6	1812.3	2633.8	4056.0	6368.7	11033.6	14963.6	18278.1	18352.6	13567.1
67.5°	784.7	823.3	941.1	1367.0	2352.3	4314.5	9069.6	14264.4	18978.2	19076.6	13686.7
70°	574.0	595.2	639.4	756.2	1183.9	2505.9	6618.0	12679.4	18075.7	18038.9	12160.6
72.5°	440.6	473.8	506.9	553.8	680.7	1337.6	4120.4	9928.8	14422.7	14179.8	9089.8
75°	347.7	353.3	400.2	442.5	510.6	761.7	1829.7	5782.7	8802.8	8227.9	4713.7
77.5°	277.8	281.5	309.1	345.9	410.3	500.4	566.7	2275.0	2810.4	2507.7	1023.0
80°	164.7	173.9	230.0	266.8	340.4	315.5	207.0	494.0	438.8	397.4	172.0
82.5°	92.0	99.4	129.7	210.7	237.3	150.9	103.0	133.4	103.0	100.3	48.8
85°	0.0	4.6	83.7	130.6	96.6	33.1	43.2	44.2	30.4	28.5	19.3
87.5°	0.0	0.0	25.8	24.8	3.7	5.5	10.1	14.7	12.0	12.0	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°	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0	1781.0
2.5°	1815.9	1766.3	1672.4	1580.4	1503.2	1439.7	1382.7	1359.7	1341.3	1338.5	1323.8
5°	1896.9	1796.6	1617.2	1470.0	1371.6	1301.7	1241.9	1205.1	1176.6	1165.6	1155.4
7.5°	2019.2	1867.5	1609.9	1440.6	1322.9	1205.1	1094.7	975.1	900.6	872.1	855.5
10°	2168.3	1961.3	1637.5	1432.3	1226.3	977.9	794.8	643.0	581.4	561.2	555.6
12.5°	2342.1	2078.1	1685.3	1380.8	1020.2	694.5	548.3	496.8	483.0	476.5	476.5
15°	2541.8	2206.0	1719.3	1231.8	754.3	525.3	474.7	450.8	436.0	427.8	428.7
17.5°	2746.0	2331.1	1702.8	1015.6	556.6	467.3	429.6	403.8	383.6	375.3	373.5
20°	2952.1	2447.0	1610.8	756.2	471.0	424.1	381.8	353.3	333.0	324.7	322.9
22.5°	3165.5	2545.4	1448.9	554.7	423.2	376.3	334.9	306.3	287.0	279.7	276.0
25°	3373.4	2625.5	1222.6	448.9	378.1	331.2	291.6	264.9	247.5	240.1	239.2
27.5°	3567.5	2676.1	960.4	396.5	338.5	290.7	254.8	230.9	216.2	210.7	209.7
30°	3742.3	2680.7	710.2	357.9	303.6	255.7	222.6	201.5	188.6	183.1	181.2
32.5°	3918.9	2642.0	517.0	322.9	271.4	225.4	193.2	176.6	167.4	162.8	162.8
35°	4085.4	2552.8	402.9	292.5	240.1	195.9	170.2	158.2	152.7	148.1	148.1
37.5°	4248.2	2424.9	342.2	265.9	210.7	171.1	149.9	142.6	138.0	133.4	133.4
40°	4413.8	2263.9	310.9	241.0	186.7	151.8	133.4	127.0	122.4	118.7	117.8
42.5°	4617.1	2078.1	290.7	218.0	165.6	134.3	117.8	110.4	106.7	103.0	101.2
45°	4852.6	1918.1	274.1	195.0	148.1	119.6	102.1	94.8	89.2	84.6	83.7
47.5°	5192.1	1802.1	252.1	170.2	131.5	104.0	88.3	80.0	71.8	67.2	66.2
50°	5625.4	1706.5	223.5	148.1	115.0	88.3	73.6	63.5	56.1	51.5	51.5
52.5°	5840.6	1581.4	197.8	128.8	96.6	74.5	59.8	47.8	44.2	39.6	39.6
55°	5927.1	1485.7	172.0	109.5	80.0	61.6	46.9	36.8	34.0	31.3	30.4
57.5°	6170.0	1458.1	149.9	92.9	66.2	48.8	35.9	27.6	25.8	22.1	22.1
60°	6560.9	1471.9	129.7	79.1	53.4	37.7	26.7	21.2	19.3	15.6	15.6
62.5°	6983.2	1454.4	109.5	68.1	41.4	27.6	18.4	15.6	15.6	9.2	8.3
65°	7064.1	1295.3	93.8	56.1	32.2	20.2	12.0	10.1	13.8	1.8	0.0
67.5°	6556.3	1004.6	81.0	43.2	23.9	15.6	9.2	4.6	12.0	0.0	0.0
70°	5242.7	638.4	65.3	31.3	18.4	12.9	7.4	1.8	9.2	0.0	0.0
72.5°	3707.3	370.7	51.5	22.1	15.6	10.1	5.5	0.0	5.5	0.0	0.0
75°	1874.8	197.8	32.2	16.6	12.0	7.4	3.7	0.0	0.9	0.0	0.0
77.5°	405.7	92.0	20.2	12.0	8.3	4.6	1.8	0.0	0.0	0.0	0.0
80°	88.3	40.5	12.9	7.4	4.6	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	32.2	21.2	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)