

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: P321543

Luminaire Tested: **GAN-SA9D-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44616 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

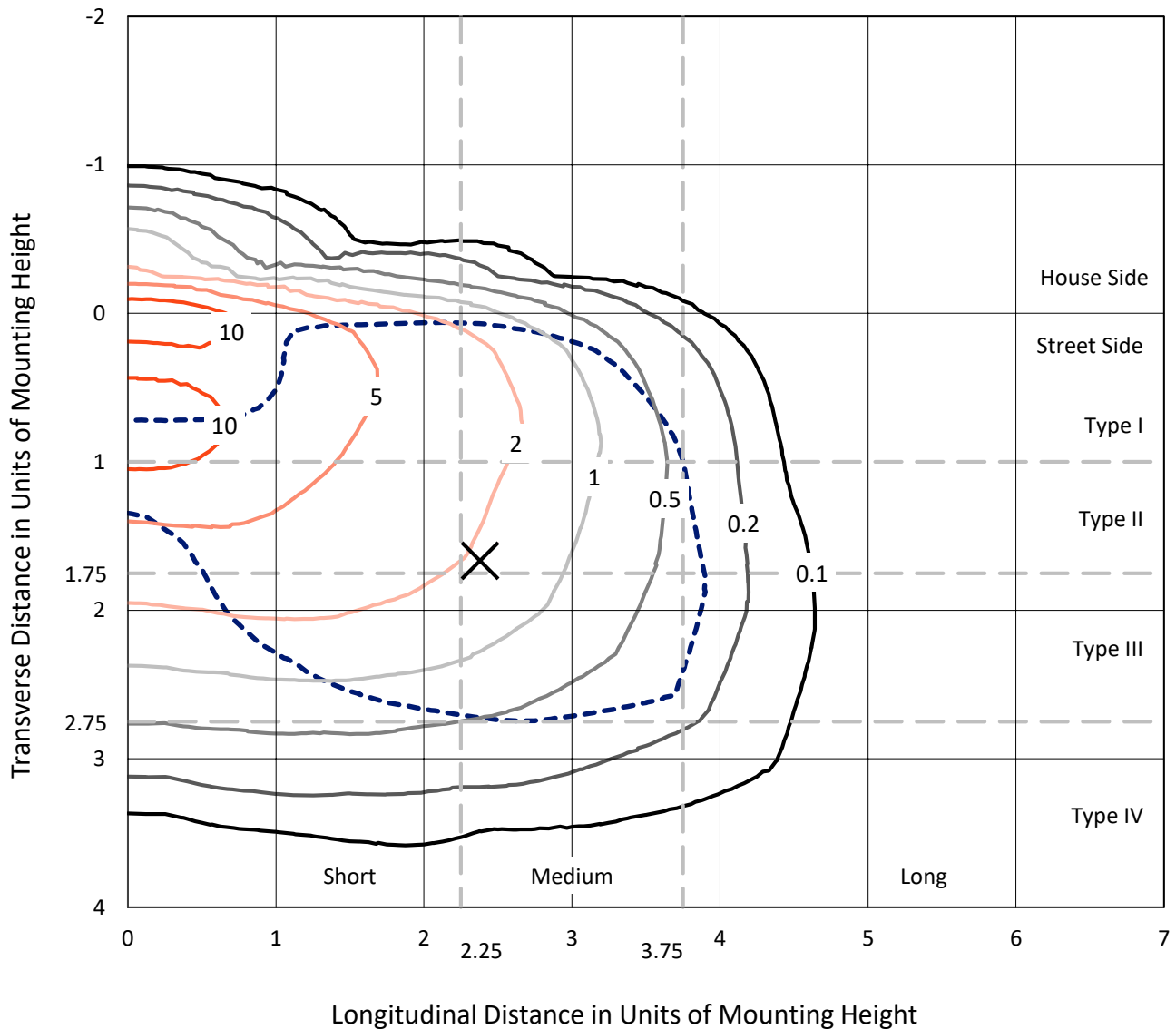
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

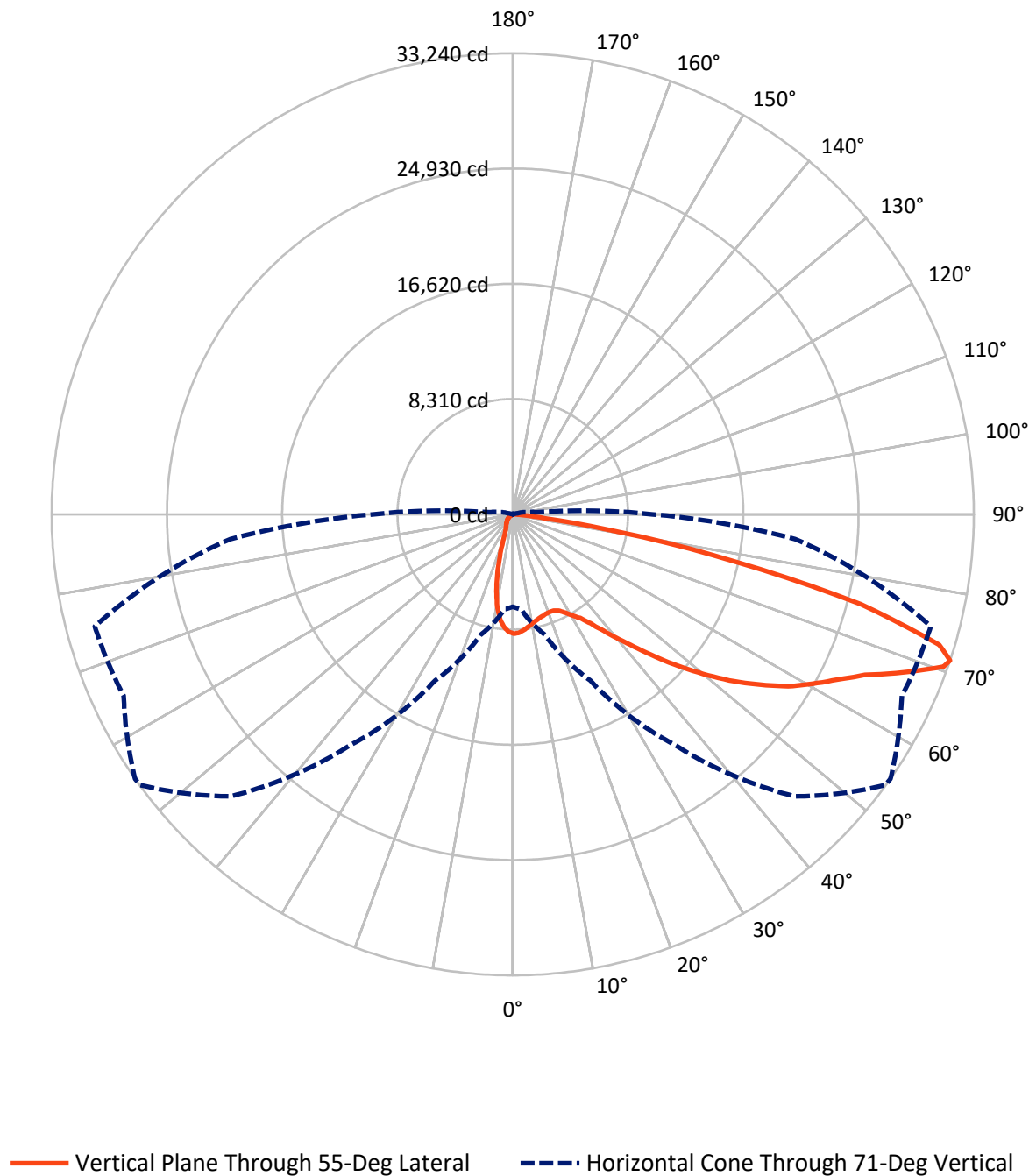
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3532.4	0.0	3532.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	41083.6	0.0	41083.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	44616.0	0.0	44616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.6	1.6
10°-20°	1656.2	3.7
20°-30°	2661.6	6.0
30°-40°	4522.2	10.1
40°-50°	7019.1	15.7
50°-60°	9437.0	21.2
60°-70°	11544.5	25.9
70°-80°	6749.8	15.1
80°-90°	291.8	0.7
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°	44616.0	100.0
0°-180°	44616.0	100.0

Coefficient of Utilization



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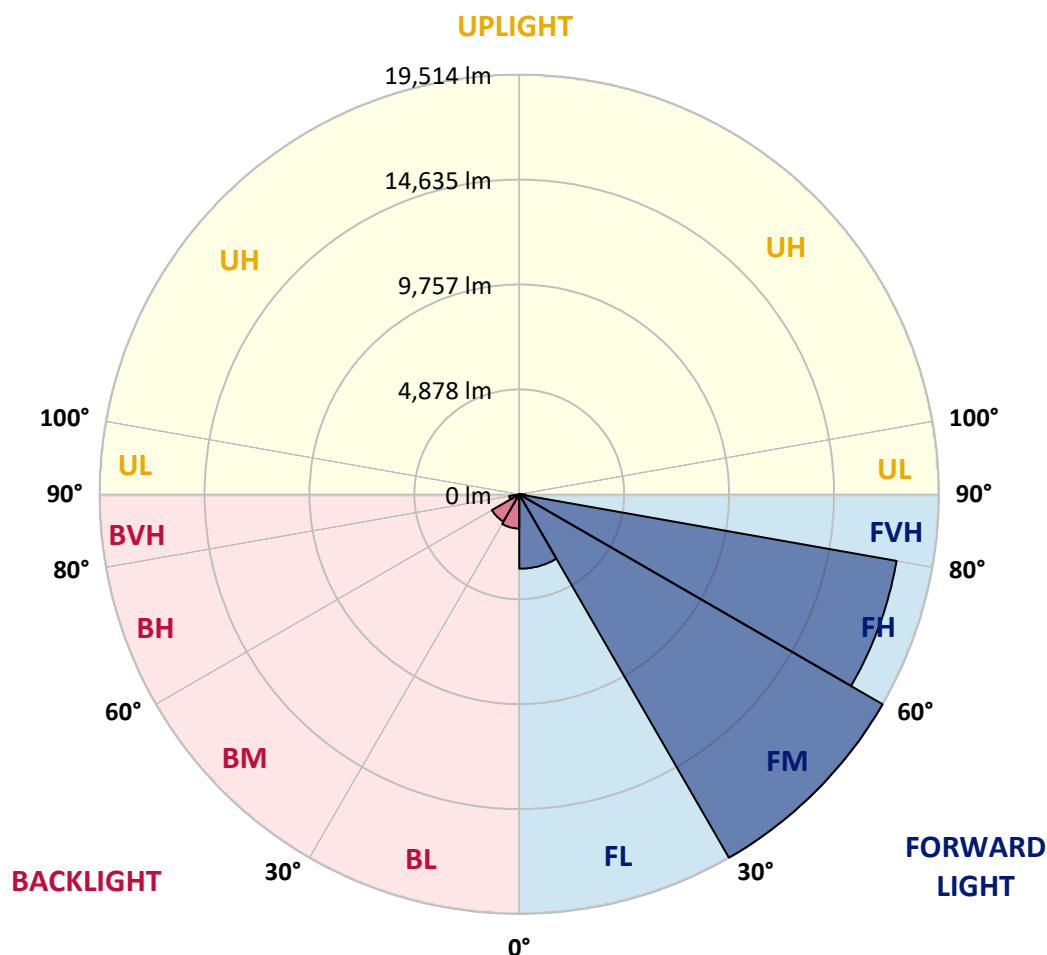
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3461.6	7.8			
FM	(30°-60°)	19513.7	43.7			
FH	(60°-80°)	17821.1	39.9			G5
FVH	(80°-90°)	287.2	0.6			G3/500
BL	(0°-30°)	1589.9	3.6	B3/2500		
BM	(30°-60°)	1464.6	3.3	B2/2500		
BH	(60°-80°)	473.3	1.1	B1/500		G1/500
BVH	(80°-90°)	4.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8604.4	8604.4	8604.4	8604.4	8604.4	8604.4	8604.4	8604.4	8604.4	8604.4	8604.4
2.5°	8351.9	8362.0	8398.0	8414.0	8452.1	8516.2	8548.3	8550.3	8602.4	8622.4	8638.4
5°	7760.9	7821.0	7881.1	7945.3	8061.4	8215.7	8368.0	8382.0	8550.3	8674.5	8740.6
7.5°	7252.1	7306.2	7378.3	7480.5	7644.8	7887.2	8141.6	8171.6	8490.2	8772.6	8920.9
10°	6729.2	6773.3	6877.5	7027.7	7254.1	7578.6	7921.2	7971.3	8436.1	8904.9	9165.3
12.5°	6170.3	6196.3	6322.5	6538.9	6871.5	7284.2	7734.9	7801.0	8402.0	9057.1	9453.8
15°	5745.6	5757.6	5877.8	6102.2	6482.8	7019.7	7590.7	7670.8	8410.0	9239.4	9768.3
17.5°	5637.4	5643.4	5707.5	5861.8	6198.3	6783.3	7476.5	7574.6	8434.1	9417.7	10084.8
20°	6076.1	6034.1	5968.0	5943.9	6088.2	6641.1	7408.4	7518.5	8466.1	9576.0	10369.3
22.5°	7280.1	7155.9	6881.5	6514.9	6292.5	6651.1	7426.4	7536.6	8568.3	9770.3	10697.8
25°	9067.1	8894.8	8428.1	7706.9	7013.7	6939.6	7576.6	7688.8	8766.6	10002.7	11012.4
27.5°	11100.5	10930.2	10359.3	9329.6	8147.6	7510.5	7921.2	8025.4	9061.1	10209.0	11252.8
30°	13047.8	12999.7	12326.6	11156.6	9574.0	8436.1	8366.0	8454.1	9279.5	10333.2	11443.1
32.5°	14698.5	14622.4	14081.5	12943.6	11206.7	9547.9	8888.8	8914.9	9443.8	10493.5	11691.5
35°	16229.1	16134.9	15660.1	14584.3	12881.5	10906.2	9694.2	9656.1	9802.4	10816.0	12052.1
37.5°	17565.3	17651.5	17124.6	16100.9	14384.0	12318.6	10780.0	10665.8	10363.3	11340.9	12575.0
40°	18683.2	18683.2	18408.7	17555.3	16006.7	13779.0	12008.0	11857.8	11206.7	12150.3	13238.1
42.5°	19085.8	19172.0	19274.2	18791.4	17459.1	15297.5	13376.3	13220.1	12394.7	13298.2	14075.5
45°	19109.9	19246.1	19769.0	19767.0	18771.3	16806.0	14918.9	14844.8	13917.2	14772.6	15113.2
47.5°	18771.3	18941.6	19803.0	20291.9	19811.1	18210.4	16605.7	16513.6	15706.2	16579.7	16199.0
50°	18248.4	18436.8	19438.4	20498.2	20518.2	19432.4	18382.7	18244.4	17675.5	18645.1	17320.9
52.5°	17312.9	17677.5	19111.9	20546.3	20983.0	20488.2	20073.5	20013.4	19879.2	20634.4	18214.4
55°	15311.5	15716.2	18292.5	20562.3	21413.7	21423.7	21658.1	21674.2	21944.6	22493.5	18879.5
57.5°	14366.0	14594.3	16862.1	20638.4	22052.8	22485.5	23272.8	23397.0	23815.7	24258.5	19638.8
60°	13771.0	14041.4	16157.0	20534.3	23056.5	23877.8	24769.3	24811.4	25260.1	26079.5	20666.5
62.5°	13296.2	13562.6	15712.2	20133.6	24184.3	25552.6	26231.8	26235.8	26572.3	28249.1	21834.4
65°	12124.2	12348.6	14812.7	19682.8	24929.6	27209.4	27930.6	27904.6	28179.0	30536.9	23190.7
67.5°	10429.4	10601.7	12975.6	17974.0	24649.1	28715.9	30494.9	30408.7	30076.2	32514.2	23723.6
70°	8063.5	8125.6	10227.1	14979.0	22020.7	29294.9	32973.0	32928.9	31240.1	32159.7	21770.3
71°	6665.1	6869.5	9013.0	13220.1	20259.8	28760.0	33213.4	33239.5	30947.6	31194.0	20426.1
72.5°	3870.5	4044.7	6532.9	10152.9	17200.7	26528.3	31967.3	32155.6	29581.4	28373.3	17447.1
75°	829.4	887.5	2422.0	4914.2	9461.8	18593.0	25232.1	25903.2	24110.2	19302.2	10515.5
77.5°	577.0	623.0	1037.7	2229.7	3127.2	9187.3	15674.2	16431.4	14404.0	7254.1	3365.6
80°	456.8	508.8	809.4	1101.8	845.4	2962.9	7342.2	7805.0	4804.0	1618.7	566.9
82.5°	254.4	302.5	631.1	595.0	324.5	562.9	2055.4	2323.9	961.6	326.5	134.2
85°	74.1	90.2	406.7	432.7	138.2	108.2	350.6	434.7	182.3	86.1	60.1
87.5°	0.0	0.0	196.3	166.3	40.1	16.0	32.1	36.1	36.1	36.1	40.1
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°	8604.4	8604.4	8604.4	8604.4	8604.4	8604.4	8604.4	8604.4	8604.4	8604.4	8604.4
2.5°	8638.4	8652.4	8602.4	8536.2	8466.1	8380.0	8289.8	8219.7	8217.7	8183.7	8149.6
5°	8744.6	8736.6	8598.3	8388.0	8139.6	7881.1	7634.7	7356.3	7264.1	7149.9	7111.9
7.5°	8940.9	8884.8	8592.3	8131.6	7586.7	7045.8	6486.8	5923.9	5683.5	5467.1	5429.1
10°	9187.3	9081.2	8554.3	7746.9	6747.3	5749.6	4906.2	4140.9	3804.3	3545.9	3533.9
12.5°	9443.8	9281.5	8448.1	7166.0	5647.4	4245.1	3273.5	2520.2	2239.7	2059.4	2075.5
15°	9712.2	9469.8	8219.7	6382.6	4395.3	2880.8	2011.4	1568.6	1456.4	1410.4	1422.4
17.5°	9986.7	9600.0	7901.2	5439.1	3159.3	1859.1	1392.3	1268.1	1268.1	1278.1	1282.1
20°	10225.1	9670.1	7432.4	4381.3	2141.6	1354.3	1218.0	1200.0	1210.0	1226.0	1228.0
22.5°	10461.5	9674.1	6821.4	3309.5	1498.5	1186.0	1159.9	1151.9	1157.9	1176.0	1178.0
25°	10653.8	9626.1	6056.1	2353.9	1196.0	1117.9	1105.8	1101.8	1105.8	1127.9	1127.9
27.5°	10731.9	9451.8	5122.5	1654.8	1071.8	1041.7	1037.7	1041.7	1047.7	1063.8	1065.8
30°	10739.9	9147.3	4104.8	1198.0	971.6	939.6	947.6	961.6	955.6	951.6	955.6
32.5°	10760.0	8794.7	3113.2	985.6	887.5	837.4	827.4	827.4	803.3	789.3	781.3
35°	10826.1	8380.0	2257.8	885.5	801.3	743.2	705.2	661.1	615.0	591.0	585.0
37.5°	10930.2	7945.3	1616.7	819.4	725.2	659.1	587.0	508.8	442.7	424.7	424.7
40°	11120.6	7496.5	1196.0	767.3	665.1	583.0	474.8	372.6	312.5	302.5	302.5
42.5°	11421.1	7023.7	953.6	721.2	613.0	504.8	362.6	270.5	226.4	220.4	218.4
45°	11733.6	6502.8	833.4	677.1	556.9	414.7	268.4	200.3	174.3	168.3	168.3
47.5°	12046.1	5947.9	775.3	635.1	502.8	322.5	200.3	158.3	146.2	146.2	148.2
50°	12310.5	5369.0	733.2	589.0	432.7	244.4	158.3	134.2	130.2	138.2	140.2
52.5°	12376.6	4800.0	681.1	530.9	346.6	186.3	130.2	118.2	118.2	118.2	118.2
55°	12336.6	4359.3	613.0	458.8	256.4	148.2	112.2	104.2	102.2	102.2	102.2
57.5°	12472.8	4098.8	490.8	356.6	184.3	120.2	98.2	92.2	88.1	86.1	86.1
60°	12747.3	3928.6	350.6	256.4	138.2	100.2	84.1	78.1	72.1	68.1	68.1
62.5°	13111.9	3780.3	260.4	190.3	106.2	80.1	70.1	64.1	56.1	52.1	52.1
65°	13392.3	3515.9	198.3	142.2	80.1	64.1	54.1	52.1	40.1	36.1	34.1
67.5°	12963.6	2934.9	160.3	104.2	60.1	50.1	42.1	40.1	24.0	20.0	20.0
70°	11118.6	2043.4	128.2	76.1	44.1	40.1	34.1	26.0	18.0	16.0	16.0
71°	10082.8	1706.8	116.2	64.1	38.1	38.1	32.1	22.0	16.0	14.0	14.0
72.5°	8376.0	1212.0	98.2	50.1	34.1	40.1	34.1	20.0	16.0	14.0	12.0
75°	4862.1	506.8	68.1	34.1	26.0	48.1	44.1	18.0	12.0	10.0	10.0
77.5°	1462.4	186.3	38.1	22.0	20.0	42.1	50.1	16.0	6.0	2.0	2.0
80°	266.4	80.1	24.0	14.0	14.0	26.0	38.1	8.0	0.0	0.0	0.0
82.5°	94.2	40.1	14.0	8.0	6.0	12.0	18.0	0.0	0.0	0.0	0.0
85°	54.1	28.0	8.0	4.0	0.0	2.0	4.0	0.0	0.0	0.0	0.0
87.5°	36.1	8.0	0.0	0.0	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)