

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: P321534

Luminaire Tested: **GAN-SA0C-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321534
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-SA0C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA 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: 45029 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

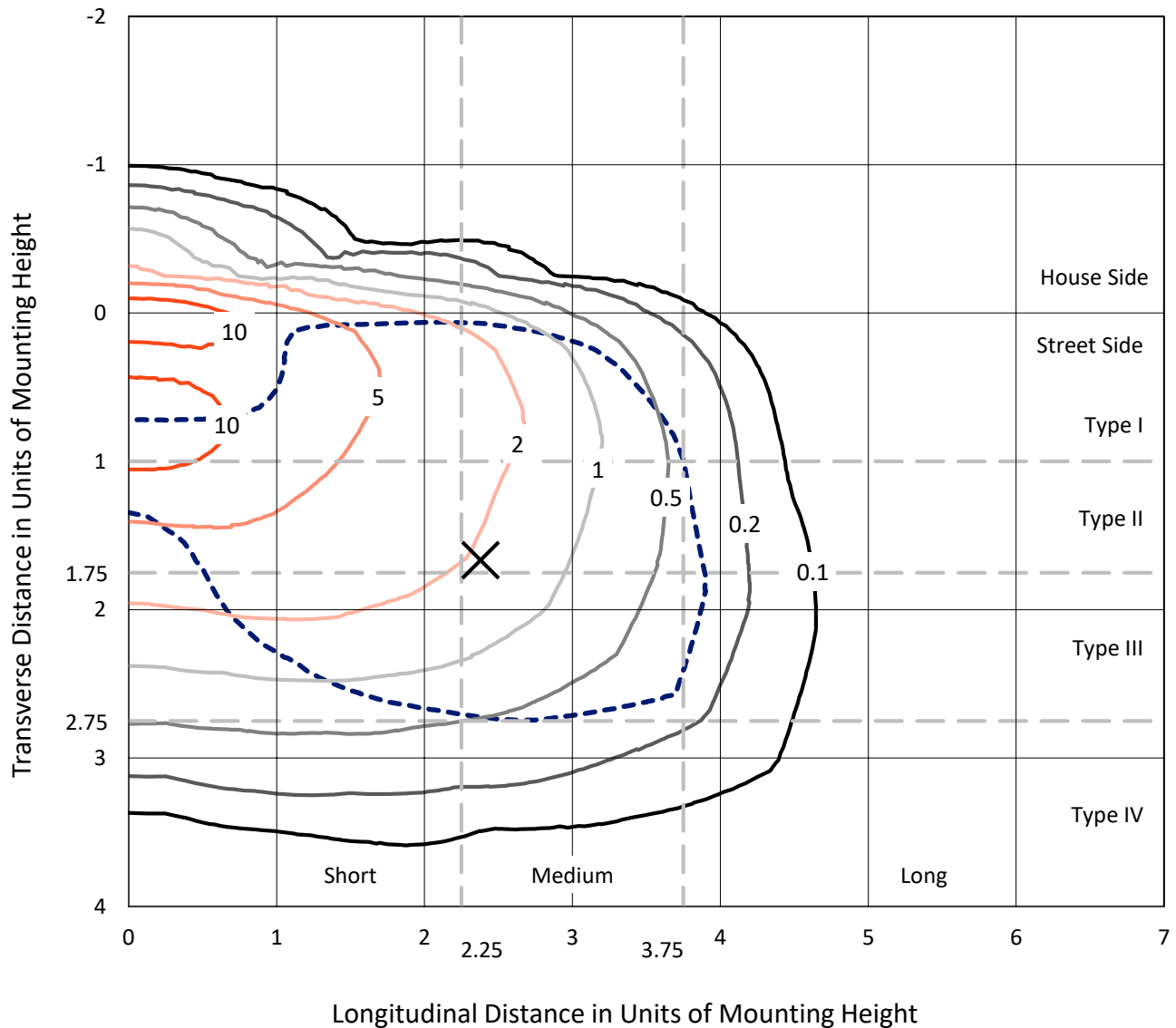
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321534
CATALOG NUMBER: GAN-SA0C-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

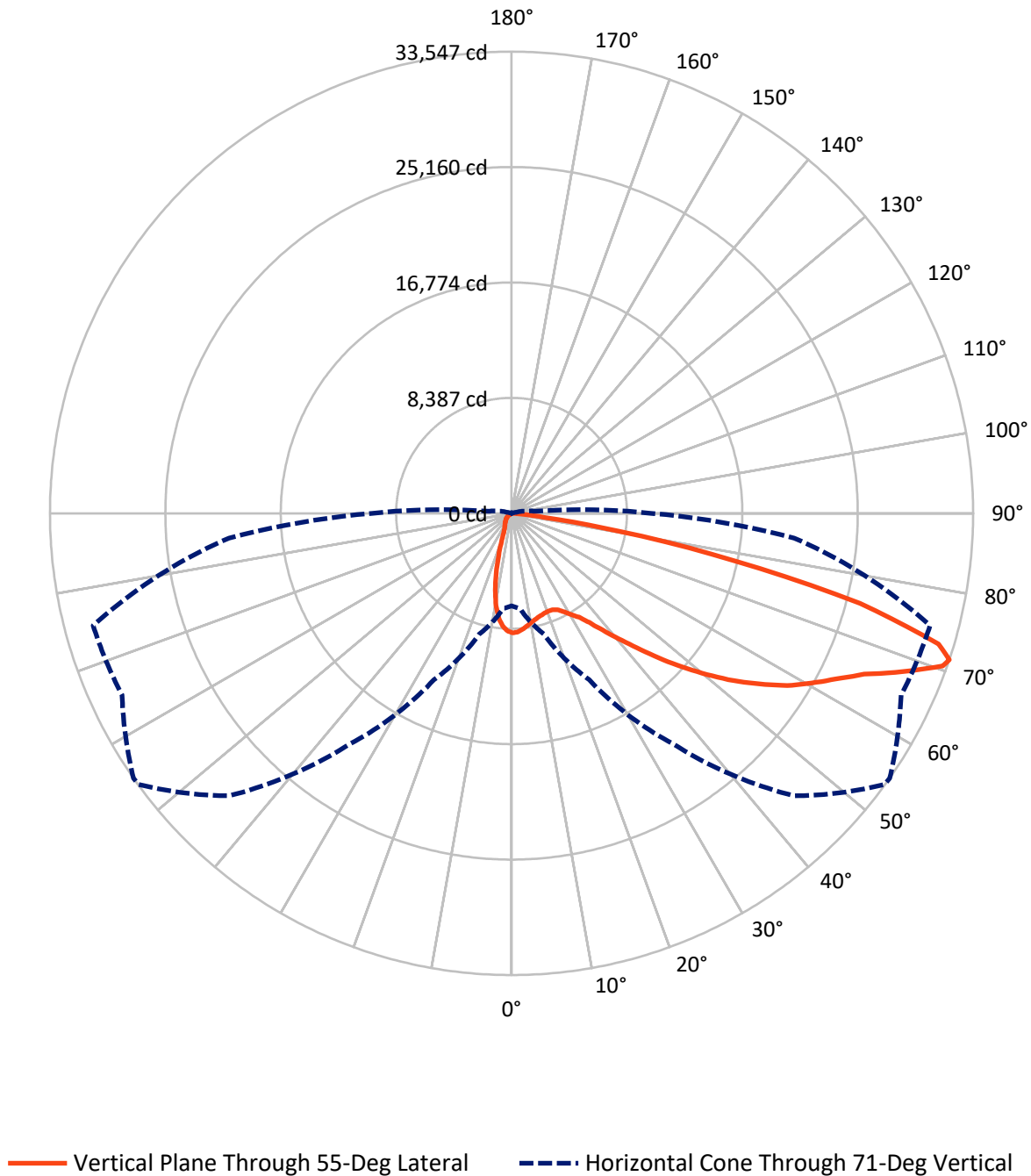
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
Type III - Medium - N/A

REPORT NUMBER: P321534
CATALOG NUMBER: GAN-SA0C-727-U-T3R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3565.1	0.0	3565.1
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	41463.9	0.0	41463.9
	% Fixture	92.1	0.0	92.1
Total	Lumens	45029.0	0.0	45029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.4	1.6
10°-20°	1671.6	3.7
20°-30°	2686.3	6.0
30°-40°	4564.1	10.1
40°-50°	7084.1	15.7
50°-60°	9524.3	21.2
60°-70°	11651.4	25.9
70°-80°	6812.3	15.1
80°-90°	294.5	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°	45029.0	100.0
0°-180°	45029.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321534

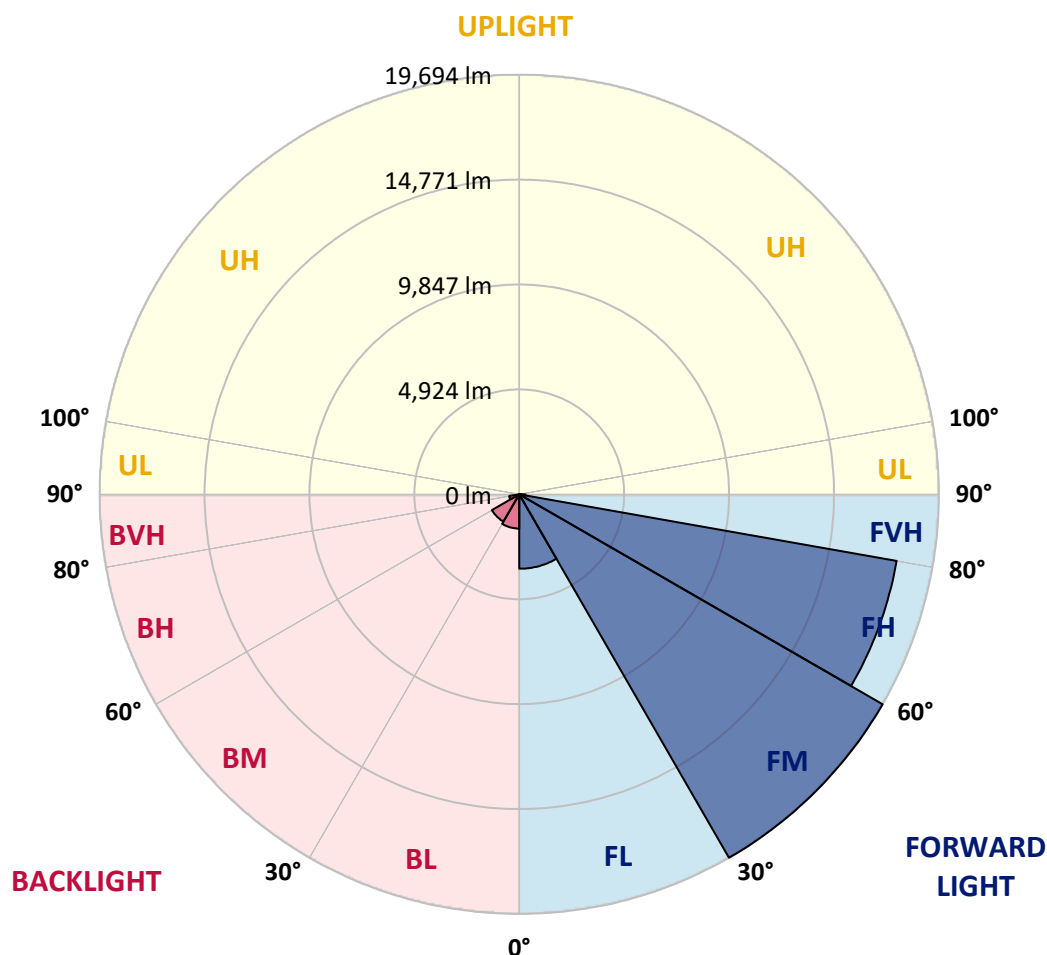
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3493.6	7.8			
FM	(30°-60°)	19694.4	43.7			
FH	(60°-80°)	17986.1	39.9			G5
FVH	(80°-90°)	289.8	0.6			G3/500
BL	(0°-30°)	1604.6	3.6	B3/2500		
BM	(30°-60°)	1478.1	3.3	B2/2500		
BH	(60°-80°)	477.6	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





REPORT NUMBER: P321534

CATALOG NUMBER: GAN-SA0C-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8684.0	8684.0	8684.0	8684.0	8684.0	8684.0	8684.0	8684.0	8684.0	8684.0	8684.0
2.5°	8429.2	8439.4	8475.7	8491.9	8530.3	8595.0	8627.4	8629.4	8682.0	8702.2	8718.4
5°	7832.8	7893.4	7954.1	8018.8	8136.1	8291.8	8445.4	8459.6	8629.4	8754.8	8821.5
7.5°	7319.2	7373.8	7446.6	7549.7	7715.5	7960.2	8216.9	8247.3	8568.8	8853.8	9003.5
10°	6791.5	6836.0	6941.1	7092.8	7321.3	7648.8	7994.5	8045.1	8514.2	8987.3	9250.1
12.5°	6227.4	6253.7	6381.1	6599.4	6935.1	7351.6	7806.5	7873.2	8479.8	9141.0	9541.3
15°	5798.8	5810.9	5932.2	6158.7	6542.8	7084.7	7660.9	7741.8	8487.9	9324.9	9858.7
17.5°	5689.6	5695.7	5760.4	5916.0	6255.7	6846.1	7545.7	7644.8	8512.1	9504.9	10178.2
20°	6132.4	6089.9	6023.2	5998.9	6144.5	6702.6	7476.9	7588.1	8544.5	9664.6	10465.3
22.5°	7347.5	7222.2	6945.2	6575.2	6350.7	6712.7	7495.1	7606.3	8647.6	9860.7	10796.9
25°	9151.1	8977.2	8506.1	7778.2	7078.6	7003.8	7646.8	7760.0	8847.8	10095.3	11114.3
27.5°	11203.3	11031.4	10455.2	9415.9	8223.0	7580.1	7994.5	8099.7	9145.0	10303.5	11356.9
30°	13168.5	13120.0	12440.7	11259.9	9662.6	8514.2	8443.4	8532.4	9365.4	10428.9	11549.0
32.5°	14834.6	14757.8	14211.8	13063.4	11310.4	9636.3	8971.1	8997.4	9531.2	10590.6	11799.7
35°	16379.3	16284.3	15805.1	14719.3	13000.7	11007.2	9783.9	9745.5	9893.1	10916.2	12163.7
37.5°	17727.9	17814.8	17283.1	16249.9	14517.1	12432.6	10879.8	10764.5	10459.2	11445.9	12691.4
40°	18856.1	18856.1	18579.1	17717.8	16154.9	13906.5	12119.2	11967.5	11310.4	12262.7	13360.6
42.5°	19262.5	19349.5	19452.6	18965.3	17620.7	15439.1	13500.1	13342.4	12509.4	13421.3	14205.8
45°	19286.8	19424.3	19952.0	19950.0	18945.1	16961.6	15057.0	14982.2	14046.0	14909.4	15253.1
47.5°	18945.1	19116.9	19986.4	20479.7	19994.4	18379.0	16759.4	16666.4	15851.6	16733.1	16349.0
50°	18417.4	18607.4	19618.4	20687.9	20708.2	19612.3	18552.8	18413.3	17839.1	18817.7	17481.2
52.5°	17473.1	17841.1	19288.8	20736.5	21177.2	20677.8	20259.3	20198.7	20063.2	20825.4	18383.0
55°	15453.3	15861.7	18461.8	20752.6	21611.9	21622.1	21858.6	21874.8	22147.7	22701.7	19054.3
57.5°	14499.0	14729.4	17018.2	20829.5	22256.9	22693.7	23488.3	23613.6	24036.2	24483.0	19820.6
60°	13898.5	14171.4	16306.5	20724.3	23269.9	24098.9	24998.6	25041.1	25494.0	26320.9	20857.8
62.5°	13419.3	13688.2	15857.7	20320.0	24408.2	25789.2	26474.6	26478.6	26818.3	28510.6	22036.5
65°	12236.5	12462.9	14949.8	19865.0	25160.4	27461.3	28189.1	28162.9	28439.9	30819.6	23405.4
67.5°	10525.9	10699.8	13095.8	18140.4	24877.3	28981.7	30777.2	30690.2	30354.6	32815.2	23943.2
70°	8138.1	8200.8	10321.7	15117.6	22224.6	29566.1	33278.2	33233.8	31529.3	32457.4	21971.8
71°	6726.8	6933.1	9096.5	13342.4	20447.3	29026.2	33520.9	33547.1	31234.1	31482.8	20615.2
72.5°	3906.3	4082.2	6593.4	10246.9	17359.9	26773.8	32263.2	32453.3	29855.2	28636.0	17608.6
75°	837.1	895.7	2444.5	4959.7	9549.4	18765.1	25465.7	26143.0	24333.4	19480.9	10612.9
77.5°	582.3	628.8	1047.3	2250.4	3156.2	9272.4	15819.2	16583.5	14537.4	7321.3	3396.8
80°	461.0	513.6	816.8	1112.0	853.2	2990.4	7410.2	7877.3	4848.5	1633.7	572.2
82.5°	256.8	305.3	636.9	600.5	327.5	568.2	2074.5	2345.4	970.5	329.6	135.5
85°	74.8	91.0	410.4	436.7	139.5	109.2	353.8	438.7	184.0	86.9	60.7
87.5°	0.0	0.0	198.1	167.8	40.4	16.2	32.4	36.4	36.4	36.4	40.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P321534

CATALOG NUMBER: GAN-SA0C-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8684.0	8684.0	8684.0	8684.0	8684.0	8684.0	8684.0	8684.0	8684.0	8684.0	8684.0
2.5°	8718.4	8732.5	8682.0	8615.3	8544.5	8457.6	8366.6	8295.8	8293.8	8259.4	8225.0
5°	8825.5	8817.4	8677.9	8465.6	8214.9	7954.1	7705.4	7424.4	7331.4	7216.1	7177.7
7.5°	9023.7	8967.1	8671.9	8206.8	7656.9	7111.0	6546.9	5978.7	5736.1	5517.7	5479.3
10°	9272.4	9165.2	8633.5	7818.6	6809.7	5802.8	4951.6	4179.2	3839.6	3578.7	3566.6
12.5°	9531.2	9367.4	8526.3	7232.3	5699.7	4284.4	3303.8	2543.5	2260.5	2078.5	2094.7
15°	9802.1	9557.5	8295.8	6441.7	4436.0	2907.5	2030.0	1583.1	1469.9	1423.4	1435.5
17.5°	10079.1	9688.9	7974.3	5489.4	3188.5	1876.3	1405.2	1279.9	1279.9	1290.0	1294.0
20°	10319.7	9759.6	7501.2	4421.9	2161.4	1366.8	1229.3	1211.1	1221.2	1237.4	1239.4
22.5°	10558.3	9763.7	6884.5	3340.2	1512.4	1197.0	1170.7	1162.6	1168.7	1186.8	1188.9
25°	10752.4	9715.2	6112.2	2375.7	1207.1	1128.2	1116.1	1112.0	1116.1	1138.3	1138.3
27.5°	10831.2	9539.3	5170.0	1670.1	1081.7	1051.4	1047.3	1051.4	1057.4	1073.6	1075.6
30°	10839.3	9231.9	4142.8	1209.1	980.6	948.3	956.4	970.5	964.4	960.4	964.4
32.5°	10859.6	8876.1	3142.0	994.8	895.7	845.1	835.0	835.0	810.8	796.6	788.5
35°	10926.3	8457.6	2278.7	893.7	808.8	750.1	711.7	667.2	620.7	596.5	590.4
37.5°	11031.4	8018.8	1631.7	827.0	731.9	665.2	592.4	513.6	446.8	428.6	428.6
40°	11223.5	7565.9	1207.1	774.4	671.3	588.4	479.2	376.1	315.4	305.3	305.3
42.5°	11526.8	7088.7	962.4	727.9	618.7	509.5	366.0	273.0	228.5	222.4	220.4
45°	11842.2	6563.0	841.1	683.4	562.1	418.5	270.9	202.2	175.9	169.8	169.8
47.5°	12157.6	6003.0	782.5	640.9	507.5	325.5	202.2	159.7	147.6	147.6	149.6
50°	12424.5	5418.7	740.0	594.4	436.7	246.7	159.7	135.5	131.4	139.5	141.5
52.5°	12491.2	4844.4	687.4	535.8	349.8	188.0	131.4	119.3	119.3	119.3	119.3
55°	12450.8	4399.6	618.7	463.0	258.8	149.6	113.2	105.1	103.1	103.1	103.1
57.5°	12588.3	4136.8	495.4	359.9	186.0	121.3	99.1	93.0	89.0	86.9	86.9
60°	12865.3	3964.9	353.8	258.8	139.5	101.1	84.9	78.9	72.8	68.7	68.7
62.5°	13233.2	3815.3	262.8	192.1	107.2	80.9	70.8	64.7	56.6	52.6	52.6
65°	13516.3	3548.4	200.2	143.6	80.9	64.7	54.6	52.6	40.4	36.4	34.4
67.5°	13083.6	2962.1	161.8	105.1	60.7	50.5	42.5	40.4	24.3	20.2	20.2
70°	11221.5	2062.3	129.4	76.8	44.5	40.4	34.4	26.3	18.2	16.2	16.2
71°	10176.2	1722.6	117.3	64.7	38.4	38.4	32.4	22.2	16.2	14.2	14.2
72.5°	8453.5	1223.2	99.1	50.5	34.4	40.4	34.4	20.2	16.2	14.2	12.1
75°	4907.1	511.5	68.7	34.4	26.3	48.5	44.5	18.2	12.1	10.1	10.1
77.5°	1476.0	188.0	38.4	22.2	20.2	42.5	50.5	16.2	6.1	2.0	2.0
80°	268.9	80.9	24.3	14.2	14.2	26.3	38.4	8.1	0.0	0.0	0.0
82.5°	95.0	40.4	14.2	8.1	6.1	12.1	18.2	0.0	0.0	0.0	0.0
85°	54.6	28.3	8.1	4.0	0.0	2.0	4.0	0.0	0.0	0.0	0.0
87.5°	36.4	8.1	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)