

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: P323649

Luminaire Tested: **GAN-SA5C-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22201 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

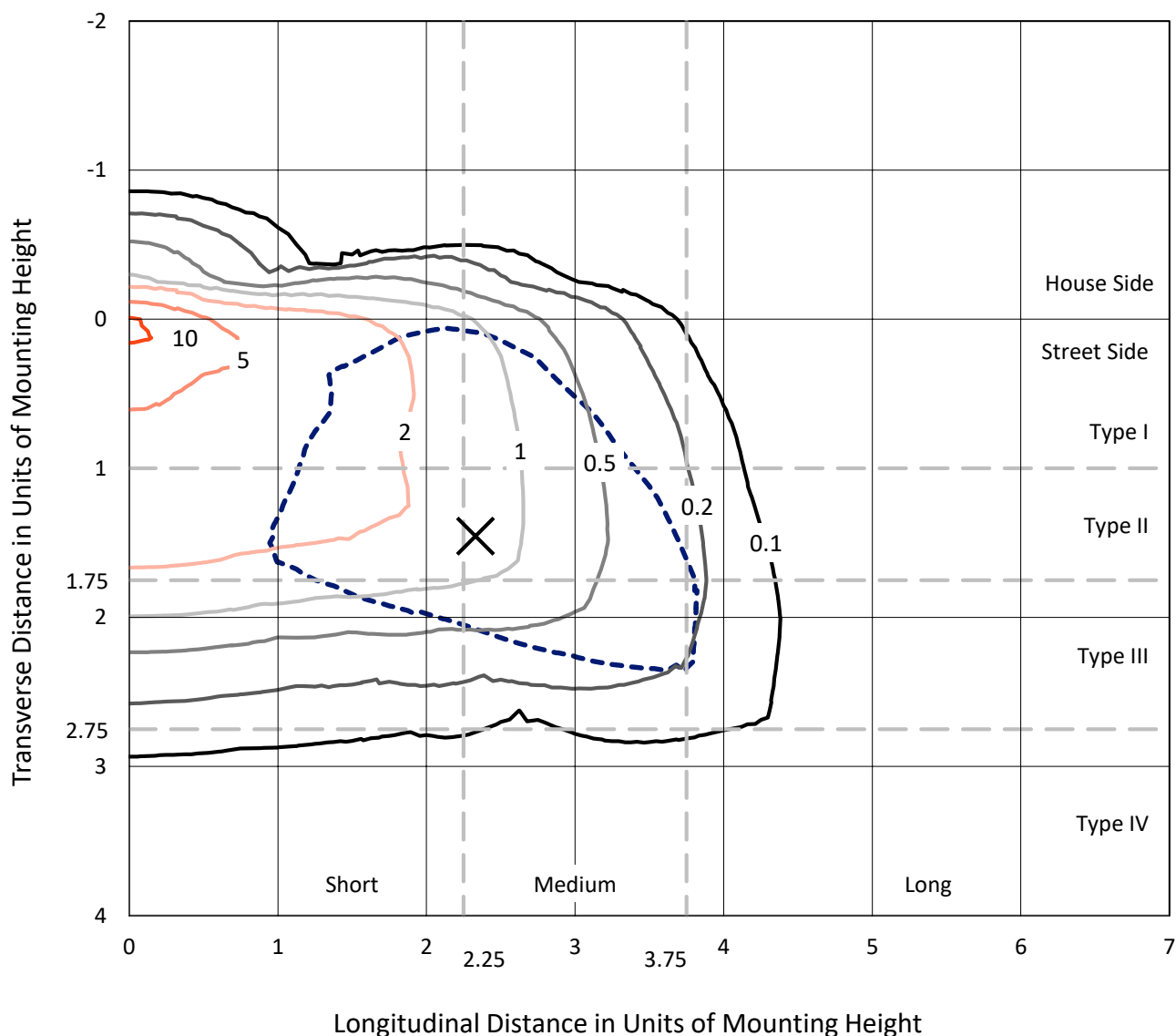
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

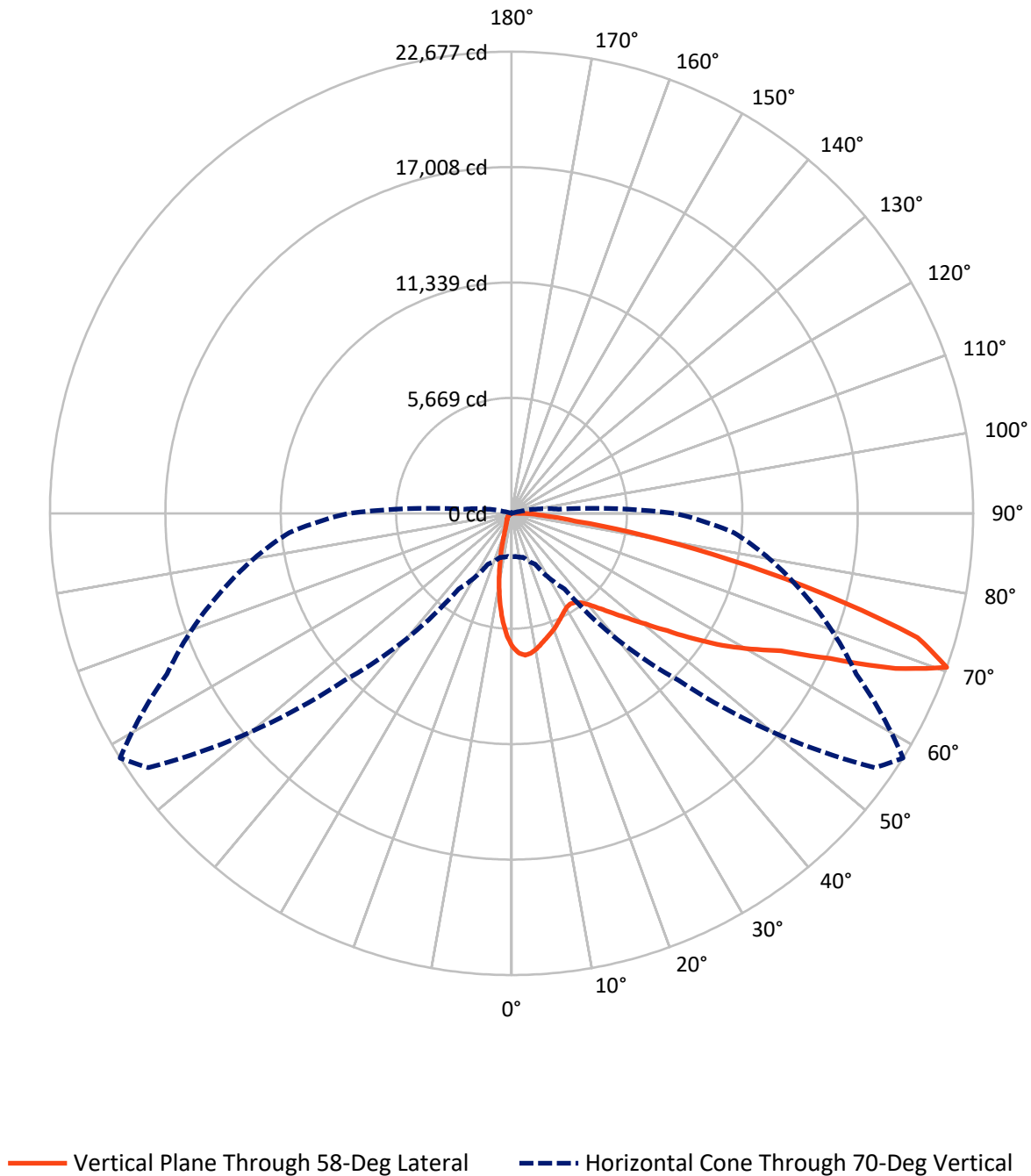
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	1899.9	0.0	1899.9
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	20301.1	0.0	20301.1
	% Fixture	91.4	0.0	91.4
Total	Lumens	22201.0	0.0	22201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.3	2.4
10°-20°	1125.5	5.1
20°-30°	1479.7	6.7
30°-40°	1959.7	8.8
40°-50°	2929.1	13.2
50°-60°	4692.3	21.1
60°-70°	5914.6	26.6
70°-80°	3190.3	14.4
80°-90°	373.4	1.7
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°	22201.0	100.0
0°-180°	22201.0	100.0

Coefficient of Utilization



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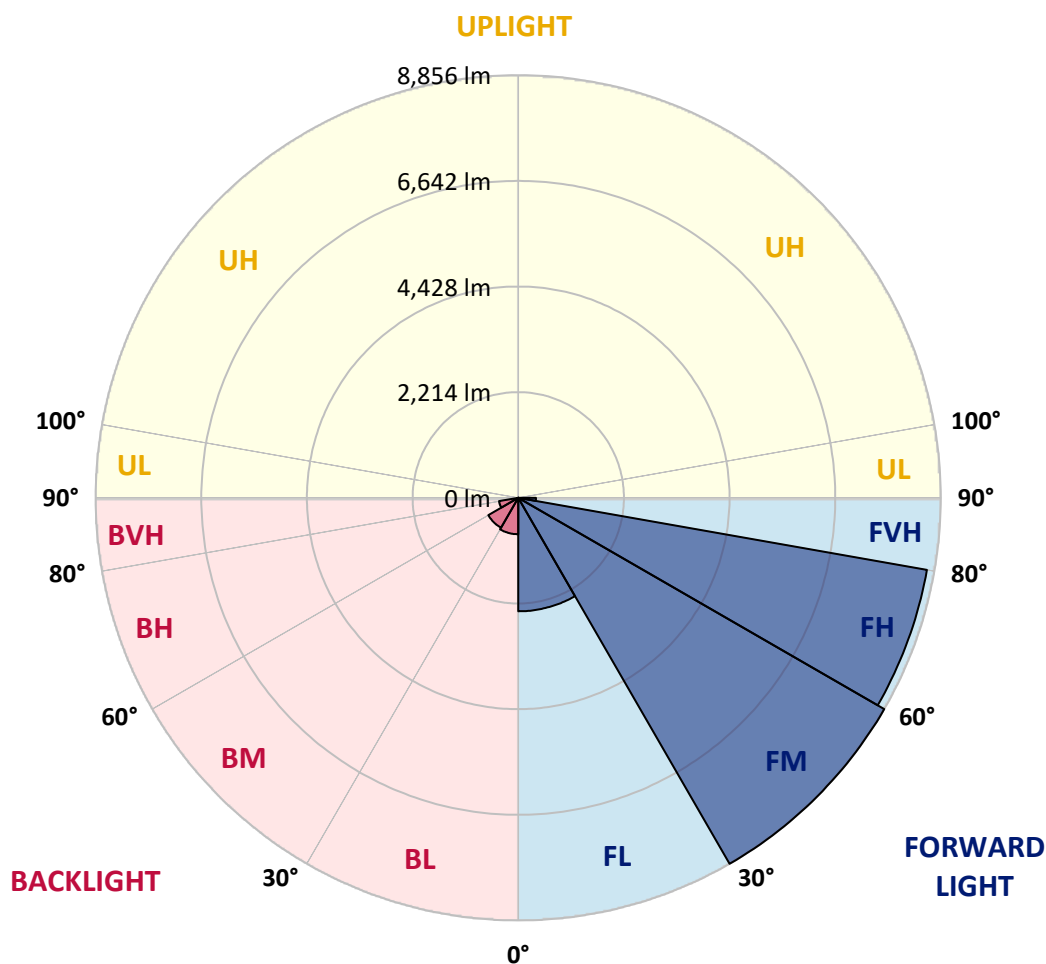
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2378.2	10.7			
FM	(30°-60°)	8856.3	39.9			
FH	(60°-80°)	8696.4	39.2			G4/12000
FVH	(80°-90°)	370.2	1.7			G3/500
BL	(0°-30°)	763.3	3.4	B2/1000		
BM	(30°-60°)	724.8	3.3	B1/1000		
BH	(60°-80°)	408.6	1.8	B1/500		G1/500
BVH	(80°-90°)	3.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1
2.5°	7101.8	7084.3	7077.8	7066.7	7024.3	6982.7	6900.6	6877.5	6825.8	6703.0	6572.8
5°	7107.3	7106.4	7125.8	7121.2	7106.4	7087.0	7028.0	6997.5	6909.8	6734.4	6496.2
7.5°	6764.9	6782.4	6825.8	6860.9	6901.5	6954.1	6961.5	6931.9	6859.9	6670.7	6355.0
10°	6305.1	6332.8	6393.7	6463.0	6569.1	6674.4	6768.5	6764.9	6739.9	6553.5	6185.1
12.5°	5844.5	5876.8	5946.9	6049.4	6199.9	6371.6	6539.6	6562.7	6604.2	6448.2	6028.2
15°	5441.1	5468.8	5538.0	5663.5	5850.0	6080.8	6327.3	6369.7	6476.8	6366.1	5897.1
17.5°	5098.6	5116.1	5166.9	5306.3	5522.3	5802.0	6122.3	6205.4	6365.1	6301.4	5783.5
20°	4859.5	4862.2	4895.5	4993.3	5209.3	5522.3	5910.0	6029.1	6247.0	6246.0	5666.3
22.5°	4741.3	4732.1	4738.5	4794.9	4953.6	5255.5	5697.7	5838.9	6140.8	6199.0	5547.2
25°	4719.2	4711.8	4693.3	4700.7	4796.7	5021.9	5483.5	5646.9	6047.6	6170.3	5443.8
27.5°	4788.4	4795.8	4764.4	4731.2	4738.5	4870.5	5293.4	5482.6	5971.9	6170.3	5370.9
30°	4927.8	4931.5	4908.4	4865.0	4806.9	4828.1	5161.3	5350.6	5934.0	6212.8	5324.7
32.5°	5082.0	5102.3	5099.5	5064.4	4981.3	4895.5	5130.0	5302.6	5931.3	6307.0	5320.1
35°	5273.0	5296.1	5334.9	5327.5	5240.7	5099.5	5237.0	5372.7	5985.7	6462.1	5370.0
37.5°	5476.1	5511.2	5594.3	5634.0	5577.7	5418.0	5477.1	5574.0	6131.6	6713.2	5496.4
40°	5672.8	5712.5	5863.9	6019.9	5977.4	5813.1	5840.8	5918.3	6391.0	7074.1	5736.5
42.5°	5865.7	5924.8	6147.3	6403.9	6454.7	6323.6	6338.4	6400.2	6775.9	7570.8	6128.8
45°	6096.5	6163.0	6492.5	6809.2	6944.9	6887.6	6950.4	6991.0	7279.1	8227.1	6657.8
47.5°	6435.3	6511.9	6916.3	7277.2	7515.4	7552.3	7678.8	7705.5	7915.1	8991.5	7347.4
50°	7096.3	7117.5	7483.1	7810.8	8154.2	8375.8	8519.8	8540.1	8685.0	9827.0	8208.7
52.5°	7928.0	7941.9	8148.7	8368.4	8758.9	9211.2	9548.2	9576.8	9607.2	10641.2	9058.9
55°	8754.2	8752.4	8889.0	9018.3	9465.1	10122.4	10853.5	10871.0	10652.2	11413.8	9708.8
57.5°	9270.3	9320.1	9527.8	9694.0	10318.1	11160.9	12175.4	12240.1	11749.9	11986.2	10351.3
60°	9106.0	9130.0	9590.6	10205.4	11380.6	12637.0	13513.1	13529.7	12575.2	12557.6	11163.7
62.5°	7758.2	7771.1	8494.8	9762.3	11918.8	14551.6	15126.8	14856.3	13524.2	13350.6	12135.8
65°	5317.4	5401.4	6006.0	7572.6	10930.1	15752.7	17624.8	17177.1	14970.8	14493.5	13014.6
67.5°	3131.3	3113.8	3412.9	4566.8	8027.7	14955.1	20784.8	20339.8	16943.5	15258.8	12757.0
70°	2138.9	2126.9	2241.4	2764.8	4531.8	11601.2	21779.0	22677.2	18685.5	14743.7	10979.0
72.5°	1526.9	1533.4	1702.3	2148.2	2845.2	6759.3	18728.9	20854.9	18139.9	12853.0	8345.3
75°	1036.7	1054.2	1296.1	1762.3	2494.4	3438.7	13290.6	15853.3	14771.4	9341.4	4796.7
77.5°	557.6	577.0	862.2	1419.8	2255.3	2389.1	8549.3	10910.7	9278.6	4199.4	1390.3
80°	232.6	243.7	403.4	1032.1	1948.8	2098.3	5030.3	6616.2	3953.9	828.1	310.2
82.5°	100.6	106.2	168.0	615.7	1456.7	1771.5	2663.3	3183.0	1198.3	181.9	156.0
85°	19.4	20.3	69.2	325.9	929.6	999.8	1726.3	1692.1	538.2	78.5	113.5
87.5°	0.0	0.0	16.6	102.5	273.3	544.7	1053.3	1040.4	182.8	37.8	42.5
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°	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1	6558.1
2.5°	6506.4	6442.7	6308.8	6143.6	6017.1	5877.7	5766.9	5626.6	5565.7	5568.5	5535.2
5°	6360.5	6229.4	5933.1	5559.2	5271.2	4973.9	4718.2	4463.4	4313.0	4264.0	4217.9
7.5°	6151.9	5944.2	5471.5	4895.5	4408.0	3931.7	3517.2	3152.6	2921.8	2809.2	2767.6
10°	5916.5	5624.8	4940.7	4181.9	3485.8	2841.5	2304.2	1837.1	1650.6	1524.1	1491.8
12.5°	5709.7	5314.6	4421.9	3449.8	2623.6	1846.3	1334.0	1043.2	916.7	866.8	858.5
15°	5514.9	5024.7	3922.5	2787.0	1816.8	1136.4	848.4	749.6	720.1	711.8	711.8
17.5°	5331.2	4748.7	3434.1	2134.3	1201.9	796.7	702.5	680.4	671.1	670.2	671.1
20°	5139.2	4472.7	2954.1	1563.8	839.1	674.8	649.0	637.0	634.2	634.2	634.2
22.5°	4955.5	4196.6	2487.0	1117.0	673.0	615.7	602.8	594.5	591.7	590.8	589.0
25°	4779.2	3934.5	2030.9	789.3	590.8	564.0	553.0	541.9	533.6	529.0	526.2
27.5°	4634.2	3700.9	1606.3	633.3	533.6	510.5	496.7	480.0	459.7	450.5	446.8
30°	4518.8	3487.7	1237.9	534.5	480.0	457.0	435.7	407.1	377.6	361.9	361.0
32.5°	4428.4	3278.1	939.8	472.7	432.0	403.4	373.0	337.0	302.8	285.3	284.3
35°	4384.0	3093.5	718.2	427.4	389.6	353.6	315.7	276.0	242.8	226.2	224.3
37.5°	4413.6	2937.5	560.4	389.6	353.6	312.0	267.7	226.2	196.6	181.9	180.9
40°	4521.6	2837.8	455.1	357.3	323.1	272.3	224.3	185.6	160.6	148.6	147.7
42.5°	4751.5	2800.8	388.6	330.5	293.6	235.4	186.5	153.2	130.2	121.9	120.0
45°	5135.5	2855.3	343.4	304.6	263.1	200.3	154.2	125.5	105.2	98.8	97.9
47.5°	5646.9	2998.4	311.1	279.7	235.4	168.9	128.3	101.5	85.9	79.4	78.5
50°	6306.0	3225.5	284.3	254.8	209.6	143.1	106.2	80.3	66.5	61.9	61.9
52.5°	7023.3	3496.0	260.3	231.7	183.7	119.1	85.9	61.9	52.6	47.1	47.1
55°	7616.0	3732.3	234.5	214.2	152.3	98.8	65.5	47.1	38.8	36.0	36.0
57.5°	8207.7	3984.3	204.9	183.7	121.9	80.3	49.9	35.1	28.6	26.8	26.8
60°	8974.9	4292.7	176.3	149.6	96.0	60.9	36.9	24.9	21.2	20.3	20.3
62.5°	9818.6	4473.6	150.5	120.0	74.8	45.2	26.8	16.6	15.7	15.7	14.8
65°	10334.7	4217.9	126.5	96.0	58.2	34.2	17.5	12.0	13.8	12.9	11.1
67.5°	9676.5	3302.1	103.4	74.8	45.2	25.8	11.1	8.3	14.8	12.0	9.2
70°	8012.0	2311.6	80.3	52.6	36.0	22.2	7.4	5.5	15.7	12.0	7.4
72.5°	5995.9	1547.2	63.7	35.1	26.8	19.4	6.5	2.8	13.8	10.2	6.5
75°	3276.3	623.1	50.8	22.2	16.6	13.8	4.6	1.8	9.2	7.4	4.6
77.5°	862.2	164.3	36.9	14.8	9.2	5.5	2.8	0.9	4.6	3.7	1.8
80°	219.7	63.7	24.0	10.2	6.5	2.8	0.0	0.0	0.9	0.0	0.0
82.5°	117.2	26.8	14.8	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	88.6	17.5	8.3	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	34.2	5.5	2.8	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)