

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: P321211

Luminaire Tested: **GAN-SA7C-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321211
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-SA7C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 33770 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

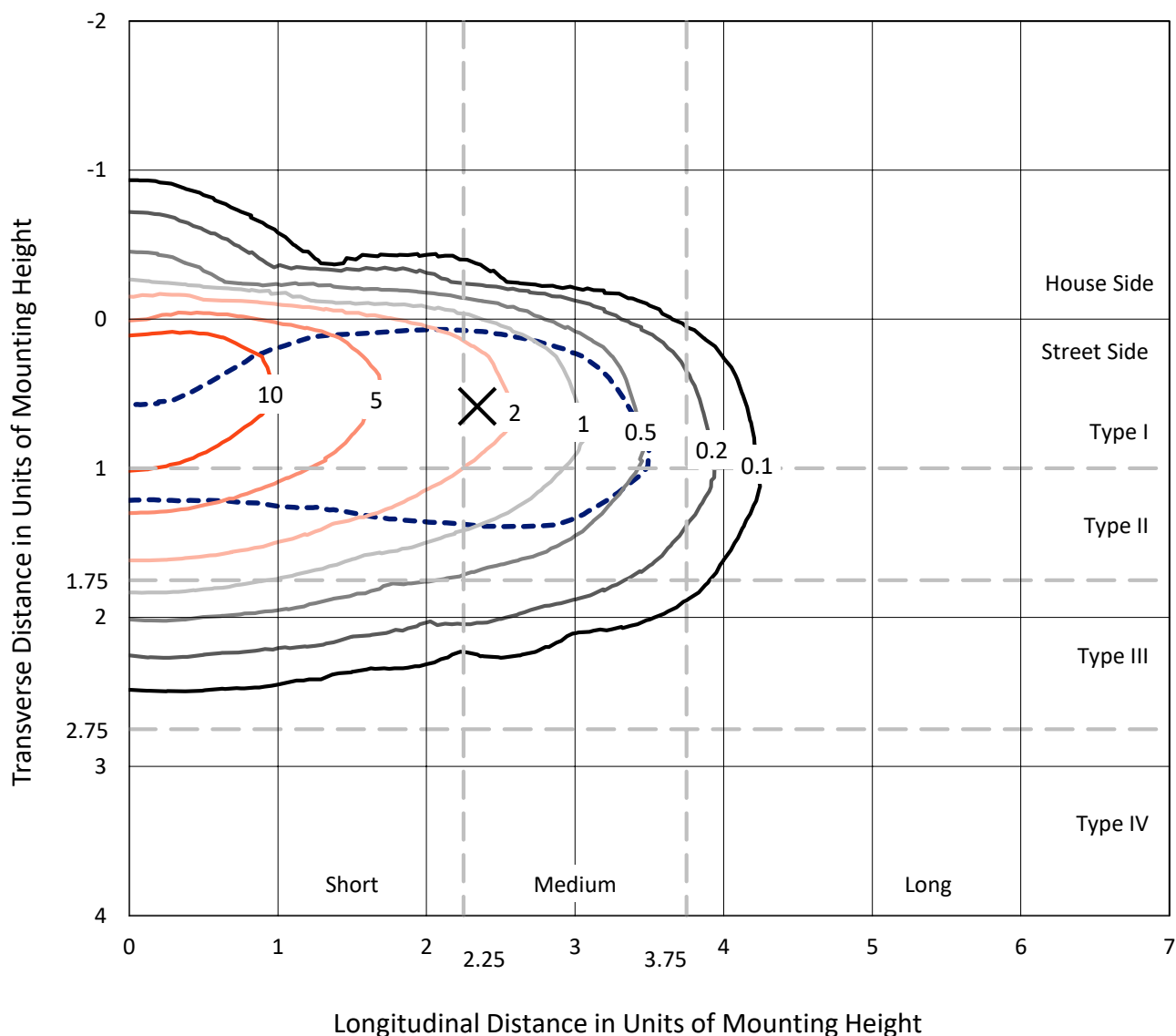
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

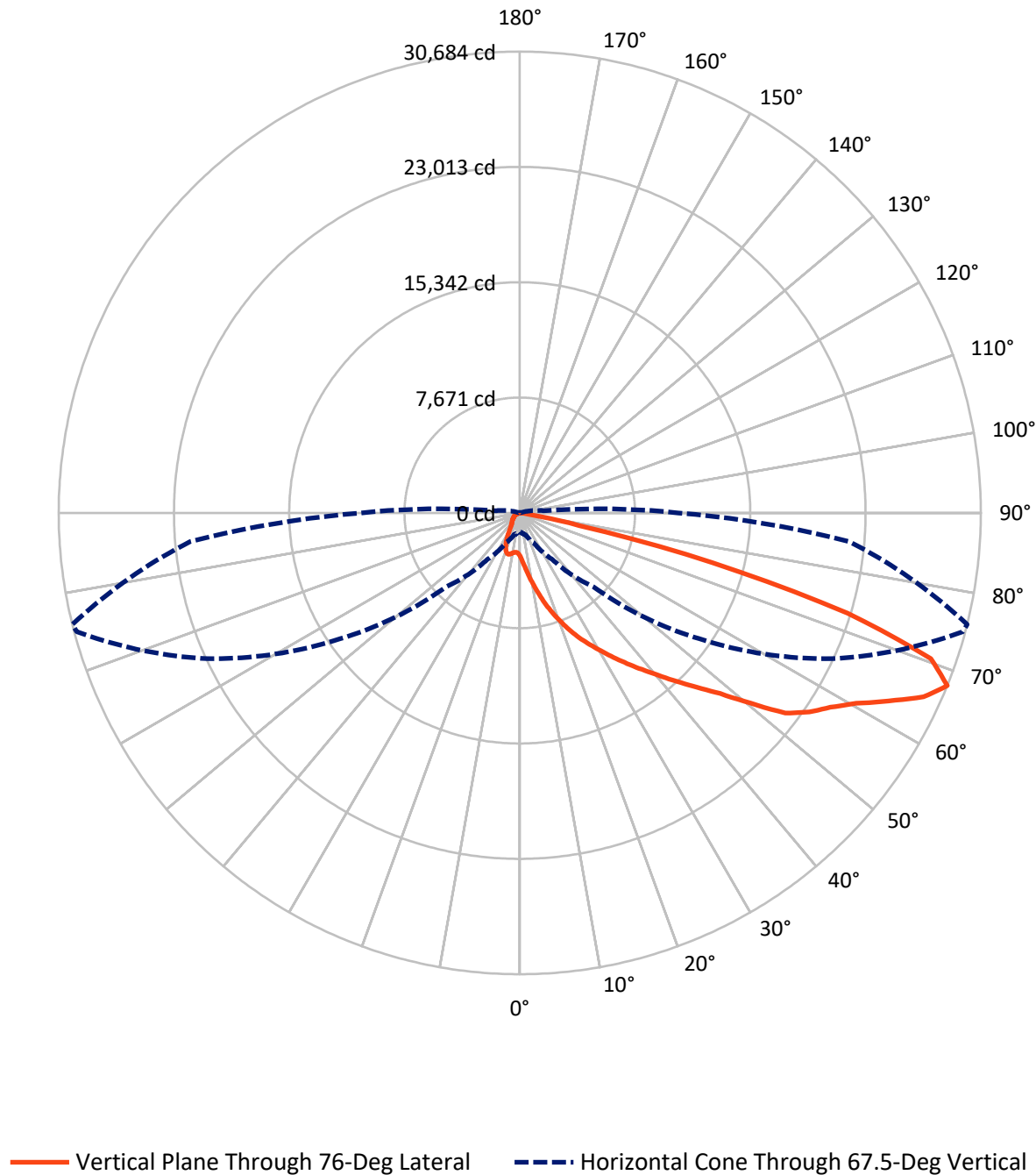
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1676.9	0.0	1676.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	32093.1	0.0	32093.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	33770.0	0.0	33770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.2	1.1
10°-20°	1412.1	4.2
20°-30°	2873.2	8.5
30°-40°	4986.9	14.8
40°-50°	7045.8	20.9
50°-60°	7990.3	23.7
60°-70°	6627.2	19.6
70°-80°	2400.6	7.1
80°-90°	77.8	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°	33770.0	100.0
0°-180°	33770.0	100.0

Coefficient of Utilization



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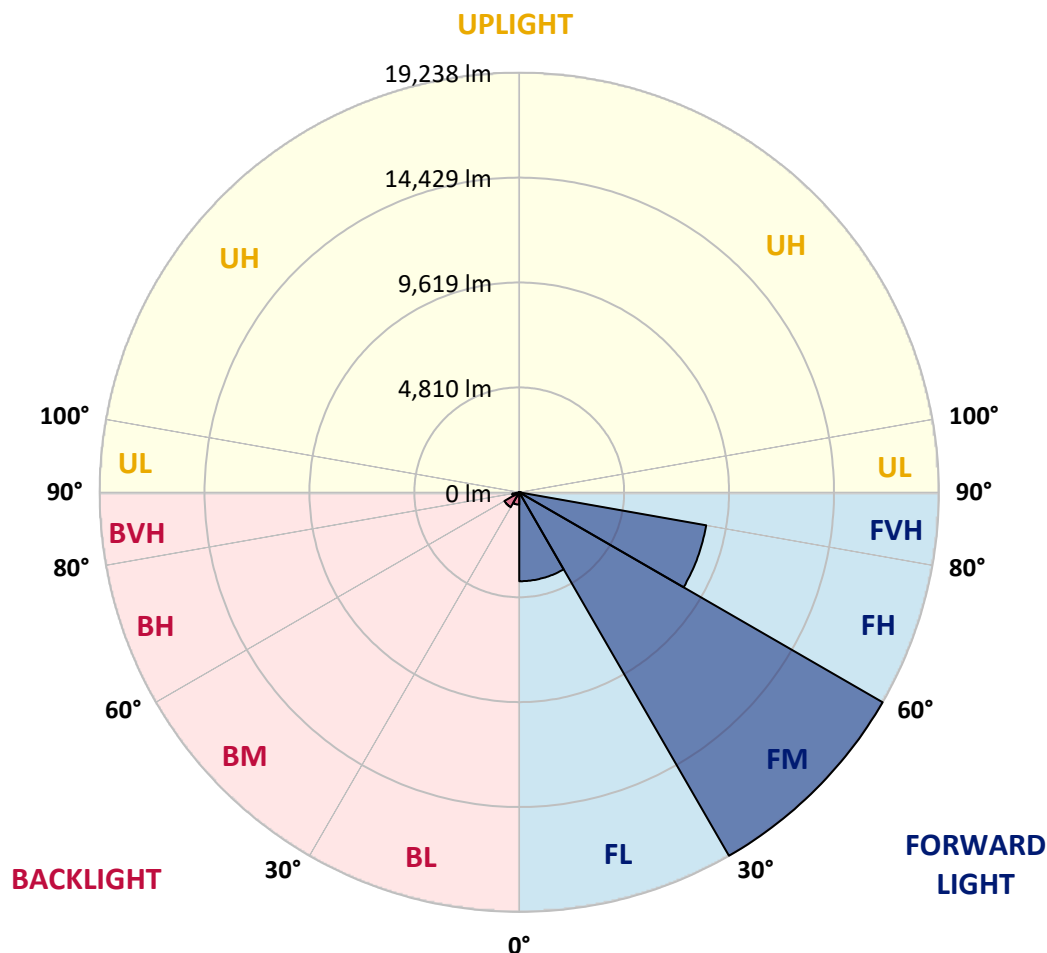
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4075.9	12.1			
FM	(30°-60°)	19238.1	57.0			
FH	(60°-80°)	8703.7	25.8			G4/12000
FVH	(80°-90°)	75.4	0.2			G1/100
BL	(0°-30°)	565.5	1.7	B2/1000		
BM	(30°-60°)	784.9	2.3	B1/1000		
BH	(60°-80°)	324.1	1.0	B1/500		G1/500
BVH	(80°-90°)	2.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2864.7	2864.7	2864.7	2864.7	2864.7	2864.7	2864.7	2864.7	2864.7	2864.7	2864.7
2.5°	4276.3	4180.1	4202.3	4140.2	4027.7	3796.9	3600.1	3413.6	3196.1	3188.7	3009.7
5°	5766.3	5685.0	5674.6	5548.8	5344.6	4952.5	4570.8	4135.7	3650.4	3614.9	3234.6
7.5°	7118.8	7053.7	7030.0	6880.5	6500.3	6118.5	5621.3	4982.1	4223.0	4157.9	3537.9
10°	8157.5	8126.4	8132.4	8025.8	7700.3	7345.2	6692.6	5877.3	4872.6	4772.0	3901.9
12.5°	8944.7	8952.1	9005.4	8940.3	8758.3	8494.9	7798.0	6831.7	5591.7	5454.1	4317.7
15°	9523.3	9560.3	9657.9	9739.3	9726.0	9498.1	8858.9	7800.9	6355.3	6202.8	4780.9
17.5°	9897.6	9939.1	10081.1	10261.6	10427.4	10374.1	9882.8	8736.1	7127.7	6951.6	5276.6
20°	10226.1	10274.9	10427.4	10665.6	10974.8	11041.4	10718.9	9643.1	7898.6	7684.0	5788.5
22.5°	10937.8	10936.4	11029.6	11168.7	11463.1	11634.8	11430.6	10485.1	8660.6	8437.2	6310.9
25°	12225.2	12176.3	12143.8	12034.3	12099.4	12205.9	12092.0	11272.3	9427.1	9200.7	6840.6
27.5°	13755.2	13784.8	13521.4	13226.9	12999.1	12889.6	12703.1	12001.7	10164.0	9915.4	7358.5
30°	15369.5	15378.4	15067.7	14691.8	14190.2	13774.4	13451.8	12698.7	10921.6	10650.8	7861.6
32.5°	16825.5	16767.8	16460.0	15948.1	15314.8	14847.2	14176.9	13477.0	11723.6	11461.7	8420.9
35°	17979.7	17911.6	17537.3	17071.1	16414.2	15943.6	15137.2	14253.8	12567.0	12311.0	8981.7
37.5°	18823.1	18743.2	18358.5	17879.1	17312.3	17038.6	16251.4	15098.7	13487.3	13212.1	9572.1
40°	19116.1	19046.5	18805.3	18454.7	17998.9	17936.8	17433.7	16070.9	14489.1	14196.1	10240.9
42.5°	18941.5	18873.4	18787.6	18669.2	18479.8	18539.0	18549.4	17179.2	15601.8	15313.3	10979.3
45°	18249.0	18188.3	18277.1	18450.2	18685.5	18978.5	19567.4	18370.3	16844.8	16537.0	11833.1
47.5°	17229.5	17185.1	17430.7	17862.8	18550.8	19358.7	20498.1	19622.1	18240.1	17954.5	12898.4
50°	15779.4	15772.0	16263.2	17051.9	18109.9	19542.2	21459.9	21045.6	20178.5	19878.1	14379.6
52.5°	13521.4	13536.2	14502.4	15764.6	17336.0	19417.9	22078.4	22874.5	22433.5	22121.3	15662.5
55°	11371.4	11460.2	12145.3	13965.3	16149.3	18956.3	22291.5	23728.3	23678.0	23382.0	16375.7
57.5°	9265.8	9427.1	10087.0	11787.2	14416.6	17892.4	22174.6	24098.2	24604.2	24377.8	17316.8
60°	6984.1	7058.1	7818.7	9407.9	12192.6	15951.0	21326.7	24299.4	25870.8	25714.0	18682.5
62.5°	4443.5	4628.5	5303.2	6836.2	9493.7	13255.0	19897.4	24296.5	27455.6	27541.4	20444.8
65°	2340.9	2556.9	2915.0	4236.3	6523.9	10243.9	17747.4	24068.6	29399.9	29519.8	21822.4
67.5°	1262.2	1324.3	1513.7	2198.8	3783.6	6939.7	14588.2	22944.0	30525.9	30684.3	22014.8
70°	923.3	957.4	1028.4	1216.3	1904.4	4030.7	10644.9	20394.5	29074.4	29015.2	19560.0
72.5°	708.8	762.0	815.3	890.8	1095.0	2151.5	6627.5	15970.3	23198.5	22807.9	14620.8
75°	559.3	568.2	643.7	711.7	821.2	1225.2	2943.1	9301.3	14159.1	13234.3	7581.9
77.5°	446.9	452.8	497.2	556.4	659.9	804.9	911.5	3659.3	4520.4	4033.6	1645.4
80°	264.9	279.7	369.9	429.1	547.5	507.5	332.9	794.6	705.8	639.2	276.7
82.5°	148.0	159.8	208.6	338.8	381.8	242.7	165.7	214.6	165.7	161.3	78.4
85°	0.0	7.4	134.7	210.1	155.4	53.3	69.5	71.0	48.8	45.9	31.1
87.5°	0.0	0.0	41.4	40.0	5.9	8.9	16.3	23.7	19.2	19.2	16.3
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°	2864.7	2864.7	2864.7	2864.7	2864.7	2864.7	2864.7	2864.7	2864.7	2864.7	2864.7
2.5°	2920.9	2841.0	2690.1	2542.1	2417.8	2315.7	2224.0	2187.0	2157.4	2152.9	2129.3
5°	3051.1	2889.8	2601.3	2364.5	2206.2	2093.8	1997.6	1938.4	1892.5	1874.8	1858.5
7.5°	3247.9	3003.8	2589.5	2317.2	2127.8	1938.4	1760.8	1568.5	1448.6	1402.7	1376.1
10°	3487.6	3154.7	2633.8	2303.9	1972.4	1572.9	1278.4	1034.3	935.2	902.6	893.7
12.5°	3767.3	3342.6	2710.8	2221.0	1641.0	1117.2	881.9	799.0	776.8	766.5	766.5
15°	4088.4	3548.3	2765.5	1981.3	1213.3	844.9	763.5	725.0	701.4	688.1	689.5
17.5°	4416.9	3749.5	2738.9	1633.6	895.2	751.7	691.0	649.6	617.0	603.7	600.8
20°	4748.3	3936.0	2590.9	1216.3	757.6	682.1	614.1	568.2	535.6	522.3	519.4
22.5°	5091.6	4094.3	2330.5	892.3	680.7	605.2	538.6	492.7	461.7	449.8	443.9
25°	5426.0	4223.0	1966.5	722.1	608.2	532.7	469.1	426.1	398.0	386.2	384.7
27.5°	5738.2	4304.4	1544.8	637.7	544.5	467.6	409.9	371.4	347.7	338.8	337.4
30°	6019.4	4311.8	1142.3	575.6	488.3	411.4	358.1	324.1	303.3	294.5	291.5
32.5°	6303.5	4249.7	831.6	519.4	436.5	362.5	310.7	284.1	269.3	261.9	261.9
35°	6571.3	4106.1	648.1	470.5	386.2	315.2	273.7	254.5	245.6	238.2	238.2
37.5°	6833.2	3900.5	550.4	427.6	338.8	275.2	241.2	229.4	222.0	214.6	214.6
40°	7099.5	3641.5	500.1	387.7	300.4	244.1	214.6	204.2	196.8	190.9	189.4
42.5°	7426.5	3342.6	467.6	350.7	266.3	216.0	189.4	177.6	171.6	165.7	162.8
45°	7805.3	3085.1	440.9	313.7	238.2	192.4	164.2	152.4	143.5	136.1	134.7
47.5°	8351.4	2898.7	405.4	273.7	211.6	167.2	142.0	128.7	115.4	108.0	106.5
50°	9048.3	2744.8	359.6	238.2	185.0	142.0	118.4	102.1	90.3	82.9	82.9
52.5°	9394.5	2543.6	318.1	207.2	155.4	119.9	96.2	76.9	71.0	63.6	63.6
55°	9533.6	2389.7	276.7	176.1	128.7	99.1	75.5	59.2	54.7	50.3	48.8
57.5°	9924.3	2345.3	241.2	149.4	106.5	78.4	57.7	44.4	41.4	35.5	35.5
60°	10553.1	2367.5	208.6	127.3	85.8	60.7	42.9	34.0	31.1	25.2	25.2
62.5°	11232.3	2339.4	176.1	109.5	66.6	44.4	29.6	25.2	25.2	14.8	13.3
65°	11362.5	2083.4	150.9	90.3	51.8	32.6	19.2	16.3	22.2	3.0	0.0
67.5°	10545.7	1615.8	130.2	69.5	38.5	25.2	14.8	7.4	19.2	0.0	0.0
70°	8432.7	1026.9	105.1	50.3	29.6	20.7	11.8	3.0	14.8	0.0	0.0
72.5°	5963.1	596.3	82.9	35.5	25.2	16.3	8.9	0.0	8.9	0.0	0.0
75°	3015.6	318.1	51.8	26.6	19.2	11.8	5.9	0.0	1.5	0.0	0.0
77.5°	652.5	148.0	32.6	19.2	13.3	7.4	3.0	0.0	0.0	0.0	0.0
80°	142.0	65.1	20.7	11.8	7.4	4.4	0.0	0.0	0.0	0.0	0.0
82.5°	51.8	34.0	10.4	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.1	17.8	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.8	5.9	1.5	1.5	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)