

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: P321404

Luminaire Tested: **GAN-SA0B-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321404
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-SA0B-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 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: 33563 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

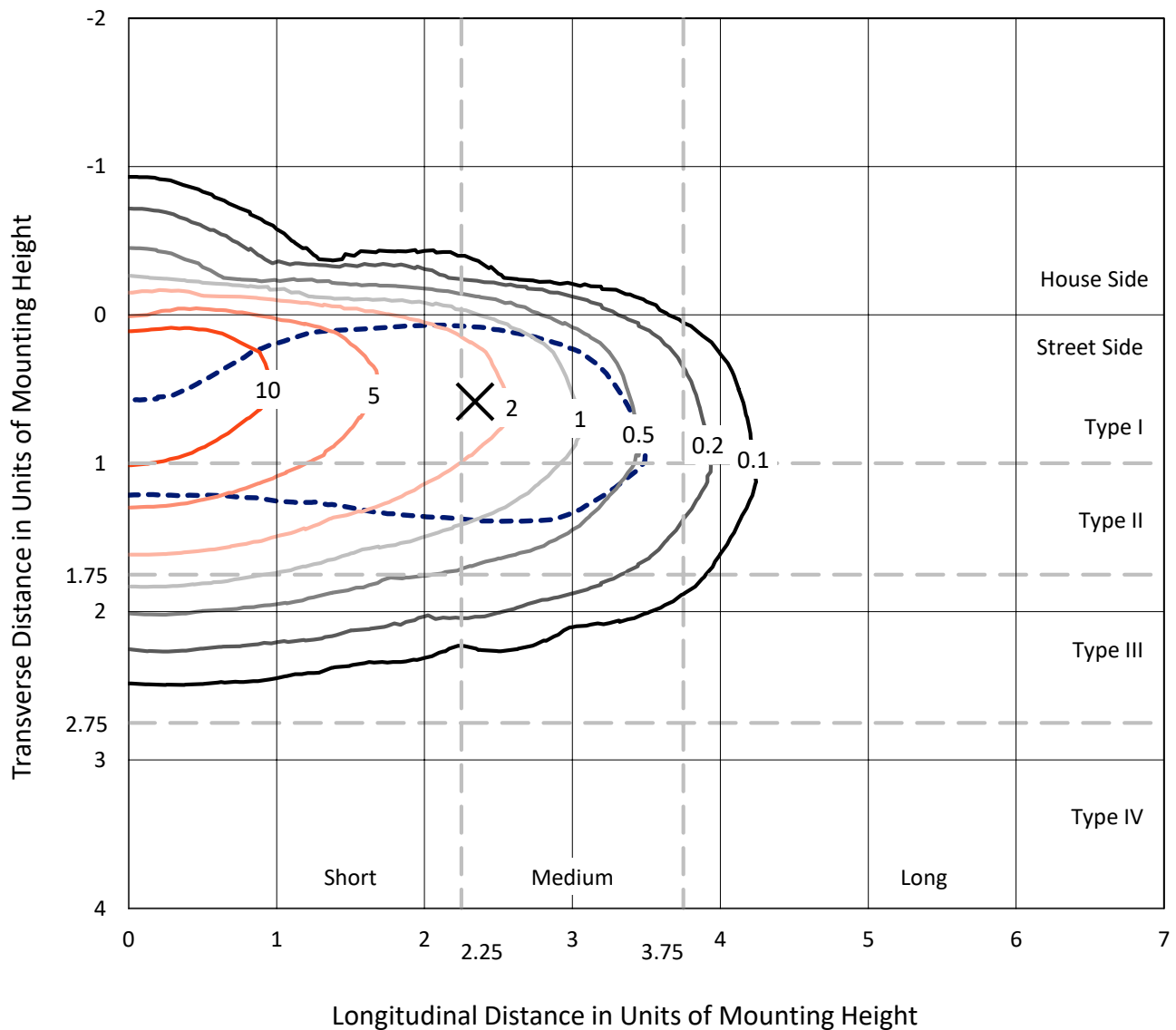
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

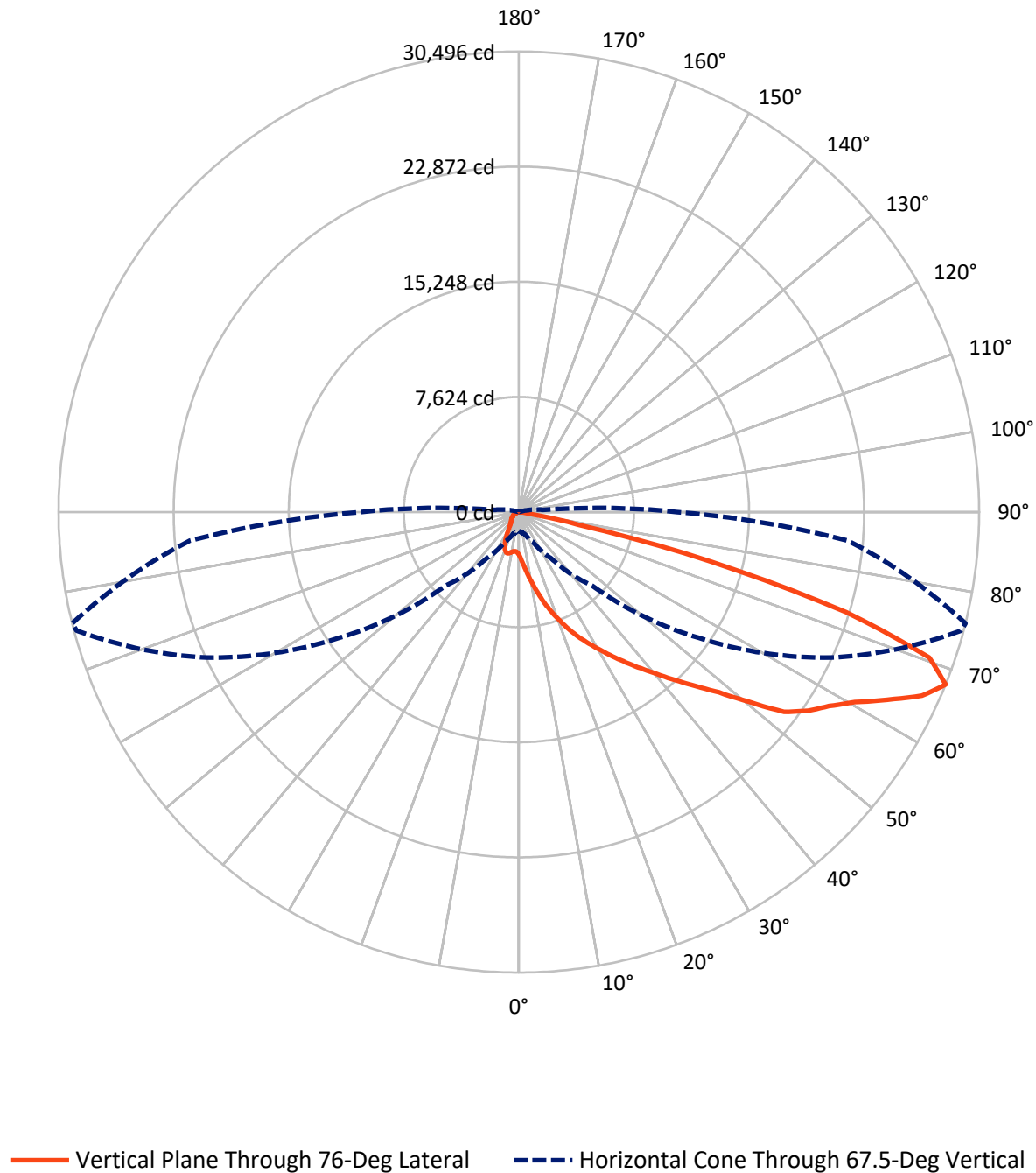
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 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	1666.6	0.0	1666.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	31896.4	0.0	31896.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	33563.0	0.0	33563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.0	1.1
10°-20°	1403.4	4.2
20°-30°	2855.5	8.5
30°-40°	4956.3	14.8
40°-50°	7002.6	20.9
50°-60°	7941.3	23.7
60°-70°	6586.6	19.6
70°-80°	2385.8	7.1
80°-90°	77.4	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°	33563.0	100.0
0°-180°	33563.0	100.0

Coefficient of Utilization



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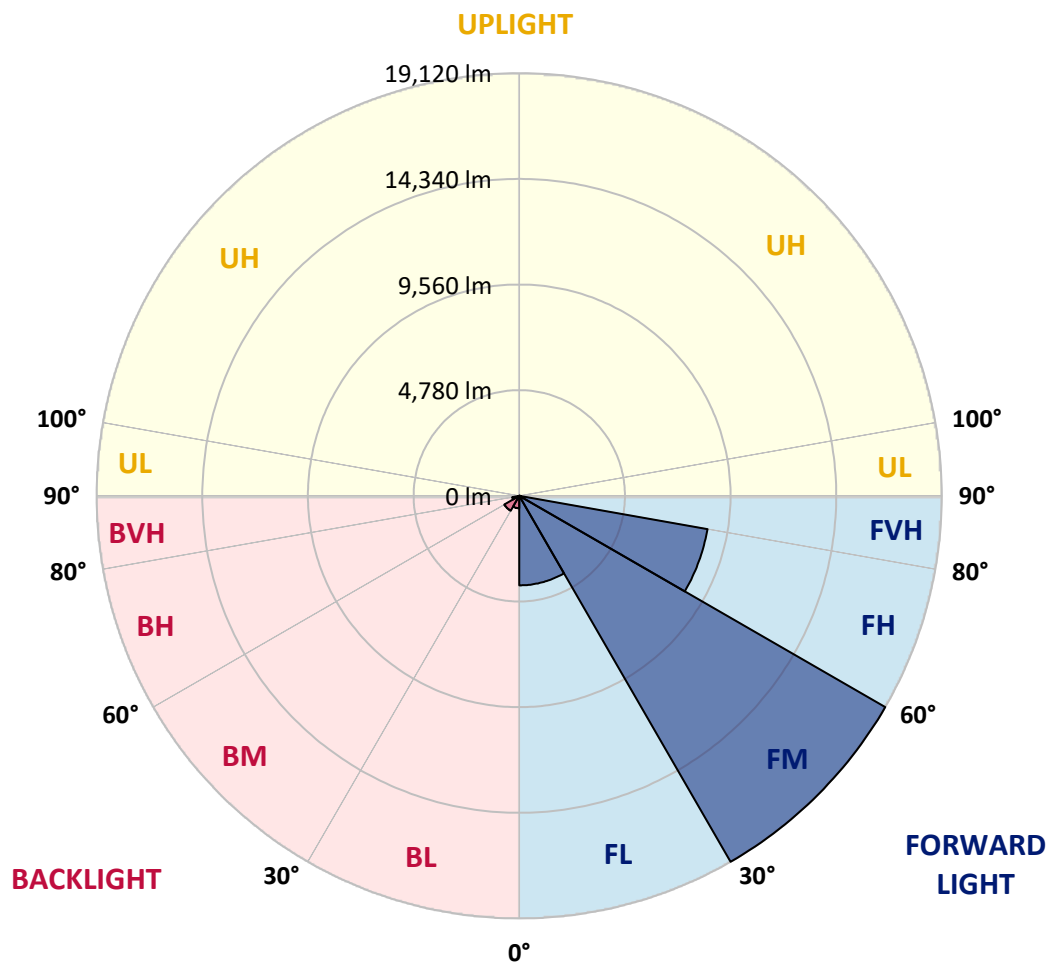
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4050.9	12.1			
FM	(30°-60°)	19120.2	57.0			
FH	(60°-80°)	8650.3	25.8			G4/12000
FVH	(80°-90°)	74.9	0.2			G1/100
BL	(0°-30°)	562.1	1.7	B2/1000		
BM	(30°-60°)	780.0	2.3	B1/1000		
BH	(60°-80°)	322.1	1.0	B1/500		G1/500
BVH	(80°-90°)	2.4	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°	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1
2.5°	4250.1	4154.5	4176.6	4114.8	4003.0	3773.6	3578.0	3392.7	3176.5	3169.2	2991.2
5°	5731.0	5650.1	5639.8	5514.8	5311.9	4922.2	4542.7	4110.4	3628.0	3592.7	3214.8
7.5°	7075.1	7010.4	6986.9	6838.4	6460.4	6081.0	5586.9	4951.6	4197.1	4132.4	3516.2
10°	8107.5	8076.6	8082.5	7976.6	7653.1	7300.1	6651.6	5841.3	4842.7	4742.7	3878.0
12.5°	8889.9	8897.2	8950.2	8885.5	8704.6	8442.8	7750.2	6789.8	5557.5	5420.7	4291.3
15°	9464.9	9501.7	9598.7	9679.6	9666.4	9439.9	8804.6	7753.1	6316.3	6164.8	4751.6
17.5°	9837.0	9878.1	10019.3	10198.7	10363.4	10310.5	9822.3	8682.5	7084.0	6909.0	5244.2
20°	10163.4	10212.0	10363.4	10600.2	10907.6	10973.7	10653.1	9584.0	7850.2	7636.9	5753.1
22.5°	10870.8	10869.3	10962.0	11100.2	11392.9	11563.5	11360.5	10420.8	8607.5	8385.5	6272.2
25°	12150.2	12101.7	12069.4	11960.5	12025.2	12131.1	12017.9	11203.2	9369.3	9144.3	6798.7
27.5°	13670.9	13700.3	13438.5	13145.8	12919.4	12810.5	12625.2	11928.2	10101.7	9854.6	7313.4
30°	15275.3	15284.1	14975.3	14601.8	14103.2	13690.0	13369.4	12620.8	10854.6	10585.5	7813.4
32.5°	16722.4	16665.0	16359.1	15850.3	15220.9	14756.2	14090.0	13394.4	11651.7	11391.4	8369.3
35°	17869.5	17801.8	17429.8	16966.5	16313.6	15845.9	15044.4	14166.5	12489.9	12235.5	8926.6
37.5°	18707.7	18628.3	18245.9	17769.5	17206.2	16934.2	16151.8	15006.2	13404.7	13131.1	9513.4
40°	18998.9	18929.8	18690.1	18341.5	17888.6	17826.8	17326.8	15972.4	14400.3	14109.1	10178.1
42.5°	18825.4	18757.7	18672.4	18554.8	18366.5	18425.4	18435.7	17073.9	15506.2	15219.4	10912.0
45°	18137.1	18076.8	18165.1	18337.1	18571.0	18862.1	19447.4	18257.7	16741.5	16435.6	11760.5
47.5°	17123.9	17079.7	17323.9	17753.3	18437.1	19240.1	20372.5	19501.9	18128.3	17844.5	12819.4
50°	15682.7	15675.3	16163.6	16947.4	17998.9	19422.4	21328.4	20916.6	20054.8	19756.3	14291.5
52.5°	13438.5	13453.2	14413.5	15668.0	17229.7	19298.9	21943.1	22734.3	22296.0	21985.7	15566.5
55°	11301.7	11389.9	12070.8	13879.7	16050.3	18840.1	22154.8	23582.8	23532.8	23238.7	16275.3
57.5°	9209.0	9369.3	10025.2	11714.9	14328.2	17782.7	22038.7	23950.5	24453.4	24228.4	17210.6
60°	6941.3	7014.8	7770.7	9350.2	12117.9	15853.3	21196.0	24150.5	25712.3	25556.4	18568.0
62.5°	4416.3	4600.1	5270.7	6794.3	9435.5	13173.8	19775.4	24147.5	27287.3	27372.6	20319.5
65°	2326.5	2541.2	2897.1	4210.4	6484.0	10181.1	17638.6	23921.1	29219.7	29338.8	21688.7
67.5°	1254.4	1316.2	1504.4	2185.3	3760.4	6897.2	14498.8	22803.4	30338.8	30496.2	21879.8
70°	917.7	951.5	1022.1	1208.8	1892.7	4006.0	10579.6	20269.5	28896.2	28837.3	19440.1
72.5°	704.4	757.4	810.3	885.3	1088.3	2138.3	6586.9	15872.4	23056.3	22668.1	14531.2
75°	555.9	564.7	639.7	707.4	816.2	1217.7	2925.1	9244.3	14072.3	13153.2	7535.4
77.5°	444.1	450.0	494.1	553.0	655.9	800.0	905.9	3636.8	4492.7	4008.9	1635.3
80°	263.2	277.9	367.7	426.5	544.1	504.4	330.9	789.7	701.5	635.3	275.0
82.5°	147.1	158.8	207.4	336.8	379.4	241.2	164.7	213.2	164.7	160.3	77.9
85°	0.0	7.4	133.8	208.8	154.4	52.9	69.1	70.6	48.5	45.6	30.9
87.5°	0.0	0.0	41.2	39.7	5.9	8.8	16.2	23.5	19.1	19.1	16.2
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°	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1
2.5°	2903.0	2823.6	2673.6	2526.5	2403.0	2301.5	2210.3	2173.6	2144.2	2139.7	2116.2
5°	3032.4	2872.1	2585.3	2350.0	2192.7	2080.9	1985.3	1926.5	1880.9	1863.3	1847.1
7.5°	3228.0	2985.4	2573.6	2303.0	2114.7	1926.5	1750.0	1558.9	1439.7	1394.1	1367.7
10°	3466.2	3135.4	2617.7	2289.8	1960.3	1563.3	1270.6	1028.0	929.4	897.1	888.3
12.5°	3744.2	3322.1	2694.2	2207.4	1630.9	1110.3	876.5	794.1	772.1	761.8	761.8
15°	4063.3	3526.5	2748.6	1969.2	1205.9	839.7	758.8	720.6	697.1	683.8	685.3
17.5°	4389.8	3726.5	2722.1	1623.6	889.7	747.1	686.8	645.6	613.2	600.0	597.1
20°	4719.2	3911.8	2575.1	1208.8	753.0	678.0	610.3	564.7	532.4	519.1	516.2
22.5°	5060.4	4069.2	2316.2	886.8	676.5	601.5	535.3	489.7	458.8	447.1	441.2
25°	5392.8	4197.1	1954.4	717.7	604.4	529.4	466.2	423.5	395.6	383.8	382.4
27.5°	5703.1	4278.0	1535.3	633.8	541.2	464.7	407.4	369.1	345.6	336.8	335.3
30°	5982.5	4285.4	1135.3	572.1	485.3	408.8	355.9	322.1	301.5	292.7	289.7
32.5°	6264.8	4223.6	826.5	516.2	433.8	360.3	308.8	282.4	267.7	260.3	260.3
35°	6531.0	4081.0	644.1	467.7	383.8	313.2	272.1	252.9	244.1	236.8	236.8
37.5°	6791.3	3876.5	547.1	425.0	336.8	273.5	239.7	227.9	220.6	213.2	213.2
40°	7056.0	3619.2	497.1	385.3	298.5	242.7	213.2	202.9	195.6	189.7	188.2
42.5°	7381.0	3322.1	464.7	348.5	264.7	214.7	188.2	176.5	170.6	164.7	161.8
45°	7757.5	3066.2	438.2	311.8	236.8	191.2	163.2	151.5	142.6	135.3	133.8
47.5°	8300.2	2880.9	402.9	272.1	210.3	166.2	141.2	127.9	114.7	107.4	105.9
50°	8992.8	2728.0	357.4	236.8	183.8	141.2	117.6	101.5	89.7	82.4	82.4
52.5°	9336.9	2528.0	316.2	205.9	154.4	119.1	95.6	76.5	70.6	63.2	63.2
55°	9475.2	2375.0	275.0	175.0	127.9	98.5	75.0	58.8	54.4	50.0	48.5
57.5°	9863.4	2330.9	239.7	148.5	105.9	77.9	57.4	44.1	41.2	35.3	35.3
60°	10488.4	2353.0	207.4	126.5	85.3	60.3	42.6	33.8	30.9	25.0	25.0
62.5°	11163.5	2325.0	175.0	108.8	66.2	44.1	29.4	25.0	25.0	14.7	13.2
65°	11292.9	2070.6	150.0	89.7	51.5	32.4	19.1	16.2	22.1	2.9	0.0
67.5°	10481.1	1605.9	129.4	69.1	38.2	25.0	14.7	7.4	19.1	0.0	0.0
70°	8381.0	1020.6	104.4	50.0	29.4	20.6	11.8	2.9	14.7	0.0	0.0
72.5°	5926.6	592.7	82.4	35.3	25.0	16.2	8.8	0.0	8.8	0.0	0.0
75°	2997.1	316.2	51.5	26.5	19.1	11.8	5.9	0.0	1.5	0.0	0.0
77.5°	648.5	147.1	32.4	19.1	13.2	7.4	2.9	0.0	0.0	0.0	0.0
80°	141.2	64.7	20.6	11.8	7.4	4.4	0.0	0.0	0.0	0.0	0.0
82.5°	51.5	33.8	10.3	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.9	17.6	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	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)