

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: P321442

Luminaire Tested: **GAN-SA8B-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321442
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-SA8B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 29376 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

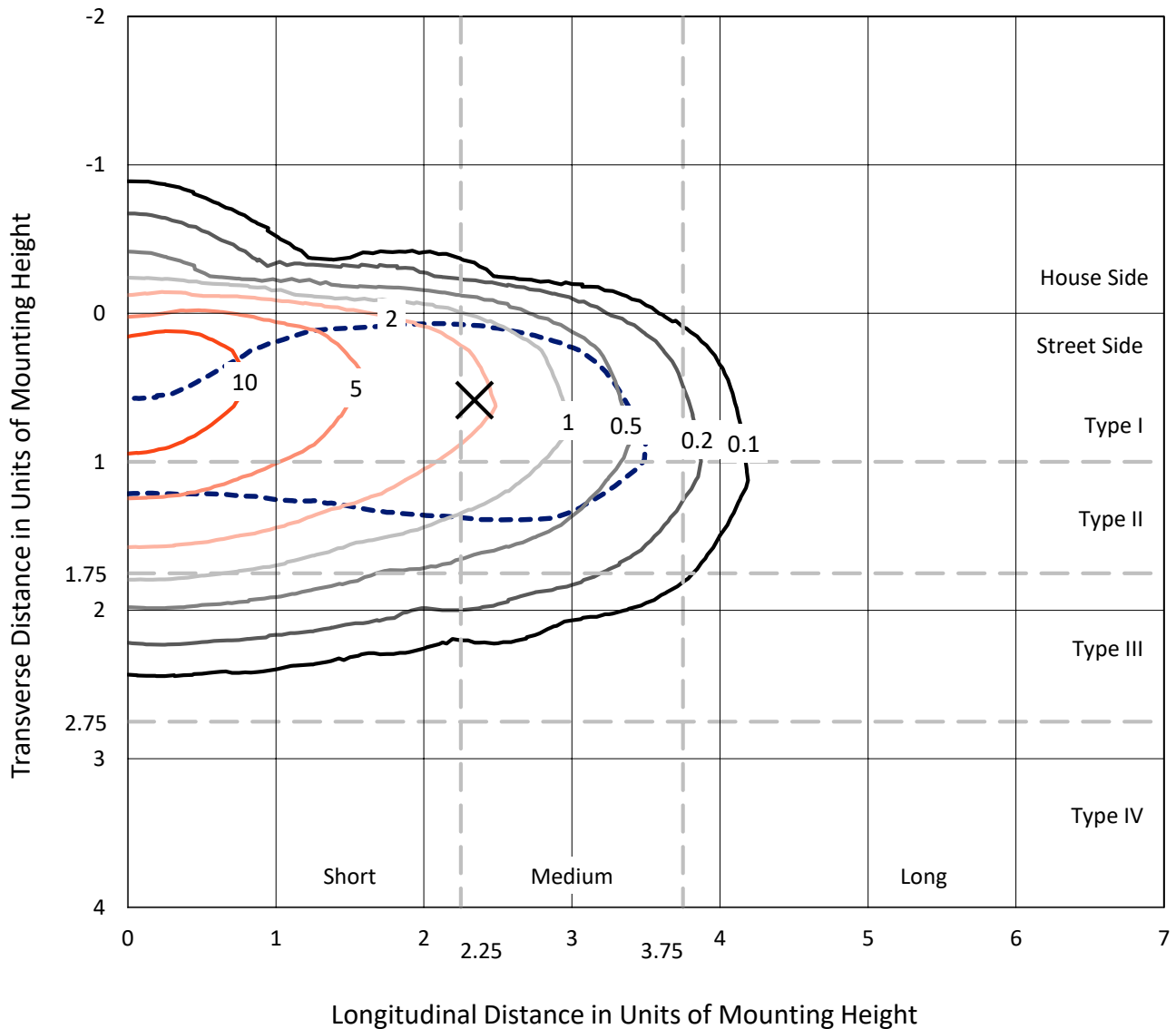
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

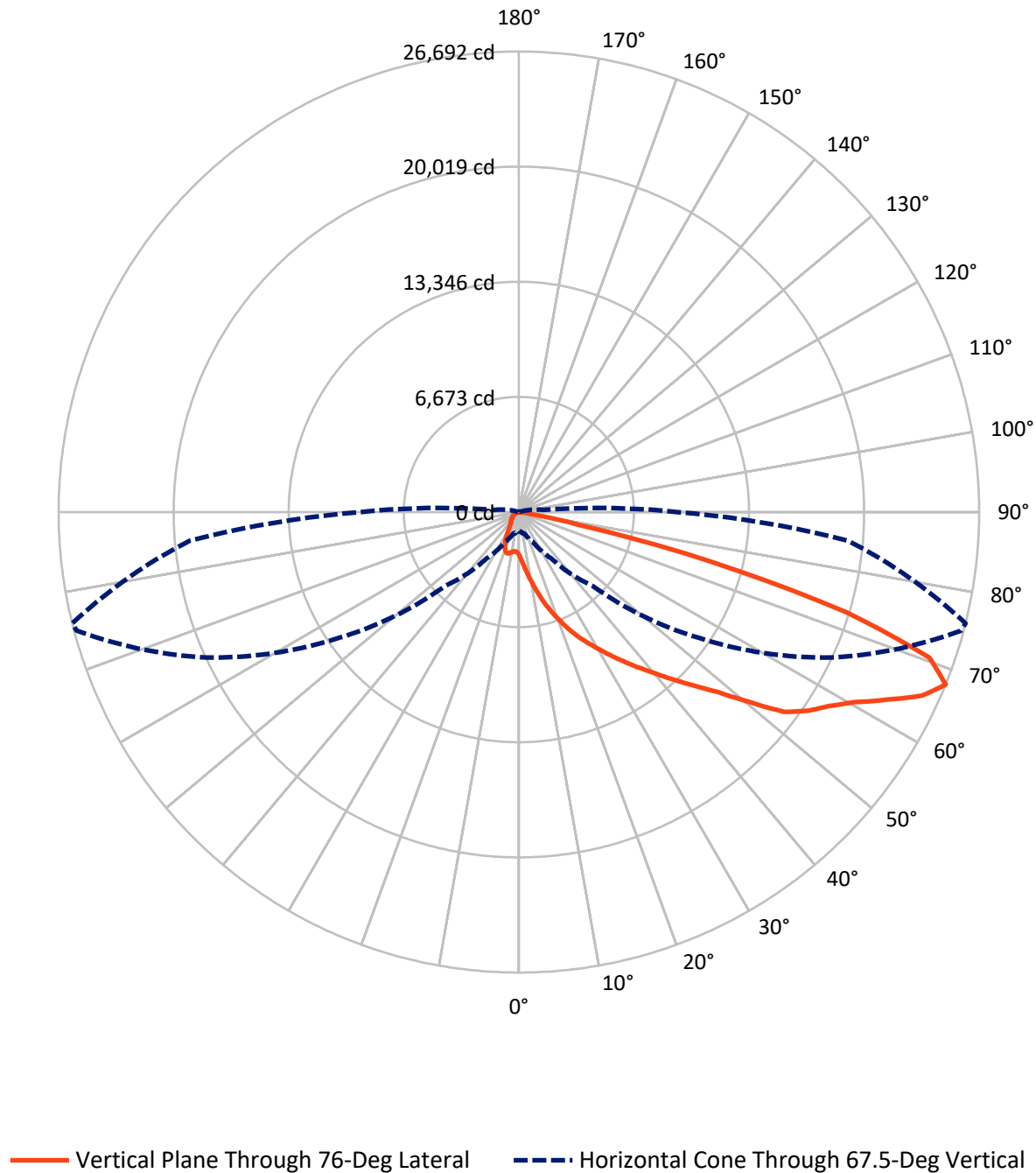
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	1458.7	0.0	1458.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	27917.3	0.0	27917.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	29376.0	0.0	29376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.9	1.1
10°-20°	1228.4	4.2
20°-30°	2499.3	8.5
30°-40°	4338.0	14.8
40°-50°	6129.0	20.9
50°-60°	6950.6	23.7
60°-70°	5764.9	19.6
70°-80°	2088.2	7.1
80°-90°	67.7	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°	29376.0	100.0
0°-180°	29376.0	100.0

Coefficient of Utilization



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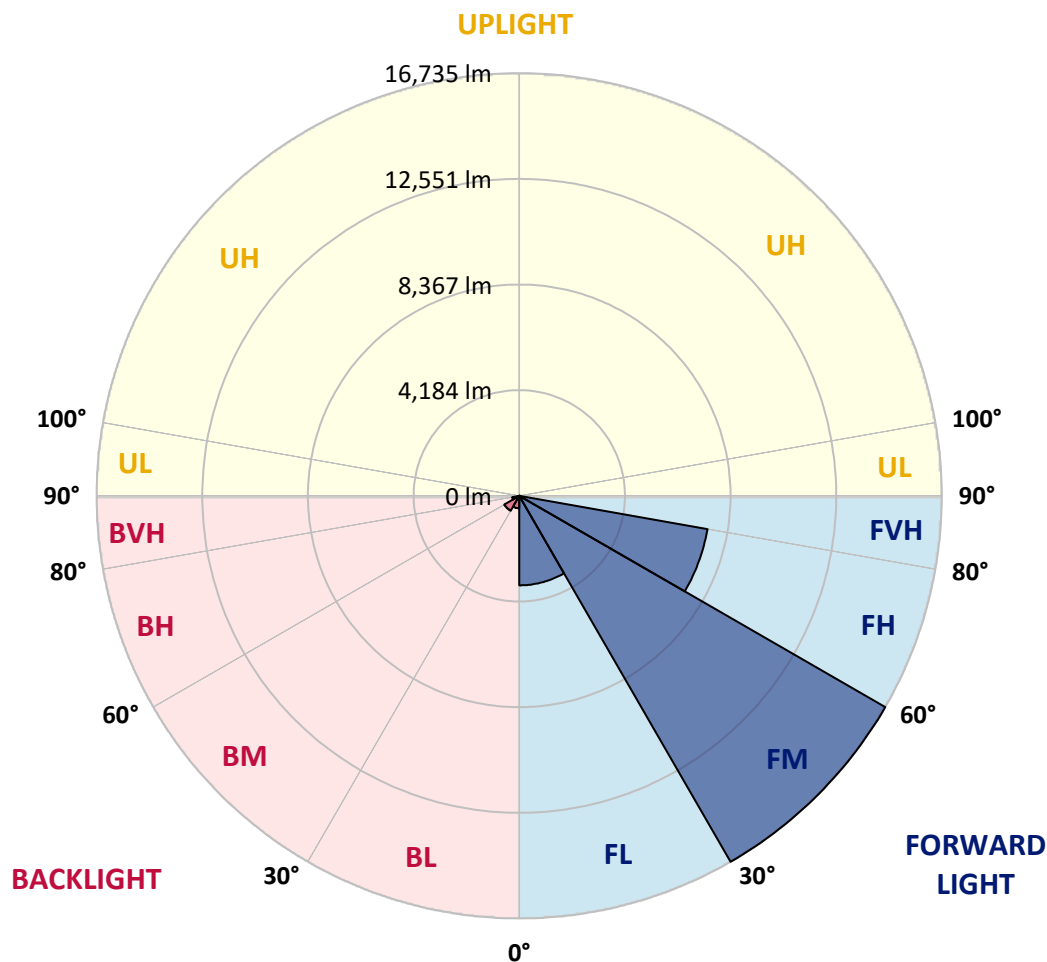
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3545.6	12.1			
FM	(30°-60°)	16734.9	57.0			
FH	(60°-80°)	7571.2	25.8			G4/12000
FVH	(80°-90°)	65.6	0.2			G1/100
BL	(0°-30°)	492.0	1.7	B1/500		
BM	(30°-60°)	682.7	2.3	B1/1000		
BH	(60°-80°)	281.9	1.0	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9
2.5°	3719.9	3636.2	3655.5	3601.5	3503.6	3302.8	3131.7	2969.5	2780.3	2773.8	2618.1
5°	5016.1	4945.3	4936.2	4826.8	4649.2	4308.1	3976.0	3597.6	3175.4	3144.5	2813.7
7.5°	6192.5	6135.9	6115.3	5985.3	5654.5	5322.4	4889.9	4333.9	3673.5	3616.9	3077.6
10°	7096.1	7069.1	7074.2	6981.5	6698.4	6389.4	5821.8	5112.6	4238.6	4151.1	3394.2
12.5°	7780.9	7787.3	7833.6	7777.0	7618.7	7389.6	6783.3	5942.8	4864.2	4744.5	3755.9
15°	8284.1	8316.3	8401.3	8472.1	8460.5	8262.3	7706.2	6785.9	5528.3	5395.8	4158.8
17.5°	8609.8	8645.8	8769.4	8926.4	9070.6	9024.3	8596.9	7599.4	6200.2	6047.1	4590.0
20°	8895.5	8938.0	9070.6	9277.8	9546.8	9604.8	9324.2	8388.4	6870.8	6684.2	5035.4
22.5°	9514.7	9513.4	9594.5	9715.5	9971.6	10120.9	9943.3	9120.8	7533.7	7339.4	5489.7
25°	10634.5	10592.0	10563.7	10468.4	10525.1	10617.8	10518.6	9805.6	8200.5	8003.5	5950.5
27.5°	11965.4	11991.2	11762.0	11505.9	11307.7	11212.4	11050.2	10440.1	8841.5	8625.2	6401.0
30°	13369.7	13377.4	13107.1	12780.2	12343.8	11982.1	11701.5	11046.4	9500.5	9265.0	6838.7
32.5°	14636.3	14586.1	14318.3	13873.0	13322.1	12915.3	12332.2	11723.4	10198.1	9970.3	7325.2
35°	15640.2	15581.0	15255.4	14849.9	14278.4	13869.1	13167.6	12399.2	10931.8	10709.1	7813.0
37.5°	16373.9	16304.4	15969.8	15552.7	15059.7	14821.6	14136.8	13134.1	11732.4	11493.0	8326.6
40°	16628.8	16568.3	16358.5	16053.4	15657.0	15602.9	15165.3	13979.8	12603.8	12349.0	8908.4
42.5°	16476.9	16417.7	16343.0	16240.1	16075.3	16126.8	16135.8	14943.9	13571.8	13320.8	9550.7
45°	15874.5	15821.7	15899.0	16049.6	16254.2	16509.1	17021.4	15980.1	14653.0	14385.3	10293.4
47.5°	14987.7	14949.0	15162.7	15538.6	16137.1	16839.9	17831.0	17069.0	15866.8	15618.4	11220.1
50°	13726.2	13719.8	14147.1	14833.2	15753.5	16999.5	18667.6	18307.2	17553.0	17291.7	12508.6
52.5°	11762.0	11774.9	12615.4	13713.4	15080.3	16891.4	19205.7	19898.2	19514.6	19243.0	13624.6
55°	9891.8	9969.0	10565.0	12148.2	14048.0	16489.8	19391.0	20640.8	20597.1	20339.7	14245.0
57.5°	8060.2	8200.5	8774.5	10253.5	12540.8	15564.3	19289.3	20962.6	21402.8	21205.9	15063.6
60°	6075.4	6139.7	6801.3	8183.7	10606.2	13875.6	18551.8	21137.7	22504.6	22368.2	16251.6
62.5°	3865.3	4026.2	4613.2	5946.7	8258.4	11530.4	17308.4	21135.1	23883.2	23957.8	17784.6
65°	2036.3	2224.2	2535.7	3685.1	5675.1	8911.0	15438.2	20936.9	25574.5	25678.8	18983.0
67.5°	1097.9	1152.0	1316.8	1912.7	3291.3	6036.8	12690.1	19958.7	26554.0	26691.8	19150.3
70°	803.2	832.8	894.6	1058.0	1656.6	3506.2	9259.8	17740.9	25291.3	25239.9	17014.9
72.5°	616.5	662.9	709.2	774.9	952.5	1871.5	5765.2	13892.3	20180.0	19840.2	12718.4
75°	486.5	494.3	559.9	619.1	714.4	1065.8	2560.2	8091.1	12316.8	11512.3	6595.4
77.5°	388.7	393.9	432.5	484.0	574.1	700.2	792.9	3183.1	3932.3	3508.8	1431.3
80°	230.4	243.3	321.8	373.3	476.2	441.5	289.6	691.2	614.0	556.1	240.7
82.5°	128.7	139.0	181.5	294.8	332.1	211.1	144.2	186.6	144.2	140.3	68.2
85°	0.0	6.4	117.1	182.8	135.2	46.3	60.5	61.8	42.5	39.9	27.0
87.5°	0.0	0.0	36.0	34.8	5.1	7.7	14.2	20.6	16.7	16.7	14.2
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°	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9	2491.9
2.5°	2540.8	2471.3	2340.1	2211.3	2103.2	2014.4	1934.6	1902.4	1876.7	1872.8	1852.2
5°	2654.1	2513.8	2262.8	2056.9	1919.2	1821.3	1737.7	1686.2	1646.3	1630.8	1616.7
7.5°	2825.3	2612.9	2252.5	2015.7	1850.9	1686.2	1531.7	1364.4	1260.1	1220.2	1197.1
10°	3033.8	2744.2	2291.1	2004.1	1715.8	1368.2	1112.1	899.7	813.5	785.2	777.4
12.5°	3277.1	2907.7	2358.1	1932.0	1427.5	971.8	767.1	695.1	675.8	666.7	666.7
15°	3556.4	3086.6	2405.7	1723.5	1055.5	735.0	664.2	630.7	610.1	598.5	599.8
17.5°	3842.2	3261.7	2382.5	1421.0	778.7	653.9	601.1	565.1	536.7	525.2	522.6
20°	4130.5	3423.8	2253.8	1058.0	659.0	593.4	534.2	494.3	466.0	454.4	451.8
22.5°	4429.1	3561.6	2027.3	776.2	592.1	526.4	468.5	428.6	401.6	391.3	386.1
25°	4720.0	3673.5	1710.6	628.1	529.0	463.4	408.0	370.7	346.2	335.9	334.7
27.5°	4991.6	3744.3	1343.8	554.8	473.7	406.7	356.5	323.1	302.5	294.8	293.5
30°	5236.2	3750.8	993.7	500.7	424.8	357.8	311.5	281.9	263.9	256.1	253.6
32.5°	5483.3	3696.7	723.4	451.8	379.7	315.4	270.3	247.1	234.3	227.8	227.8
35°	5716.3	3571.9	563.8	409.3	335.9	274.2	238.1	221.4	213.7	207.2	207.2
37.5°	5944.1	3392.9	478.8	372.0	294.8	239.4	209.8	199.5	193.1	186.6	186.6
40°	6175.8	3167.7	435.1	337.2	261.3	212.4	186.6	177.6	171.2	166.0	164.8
42.5°	6460.2	2907.7	406.7	305.1	231.7	187.9	164.8	154.5	149.3	144.2	141.6
45°	6789.8	2683.7	383.6	272.9	207.2	167.3	142.9	132.6	124.9	118.4	117.1
47.5°	7264.7	2521.5	352.7	238.1	184.1	145.4	123.6	112.0	100.4	94.0	92.7
50°	7871.0	2387.7	312.8	207.2	160.9	123.6	103.0	88.8	78.5	72.1	72.1
52.5°	8172.2	2212.6	276.7	180.2	135.2	104.3	83.7	66.9	61.8	55.3	55.3
55°	8293.2	2078.8	240.7	153.2	112.0	86.2	65.6	51.5	47.6	43.8	42.5
57.5°	8633.0	2040.1	209.8	130.0	92.7	68.2	50.2	38.6	36.0	30.9	30.9
60°	9180.0	2059.5	181.5	110.7	74.7	52.8	37.3	29.6	27.0	21.9	21.9
62.5°	9770.8	2035.0	153.2	95.2	57.9	38.6	25.7	21.9	21.9	12.9	11.6
65°	9884.1	1812.3	131.3	78.5	45.1	28.3	16.7	14.2	19.3	2.6	0.0
67.5°	9173.6	1405.6	113.3	60.5	33.5	21.9	12.9	6.4	16.7	0.0	0.0
70°	7335.5	893.3	91.4	43.8	25.7	18.0	10.3	2.6	12.9	0.0	0.0
72.5°	5187.2	518.7	72.1	30.9	21.9	14.2	7.7	0.0	7.7	0.0	0.0
75°	2623.2	276.7	45.1	23.2	16.7	10.3	5.1	0.0	1.3	0.0	0.0
77.5°	567.6	128.7	28.3	16.7	11.6	6.4	2.6	0.0	0.0	0.0	0.0
80°	123.6	56.6	18.0	10.3	6.4	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	45.1	29.6	9.0	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.5	15.4	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	5.1	1.3	1.3	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)