

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: P321413

Luminaire Tested: **GAN-SA9C-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321413
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-SA9C-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 37520 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

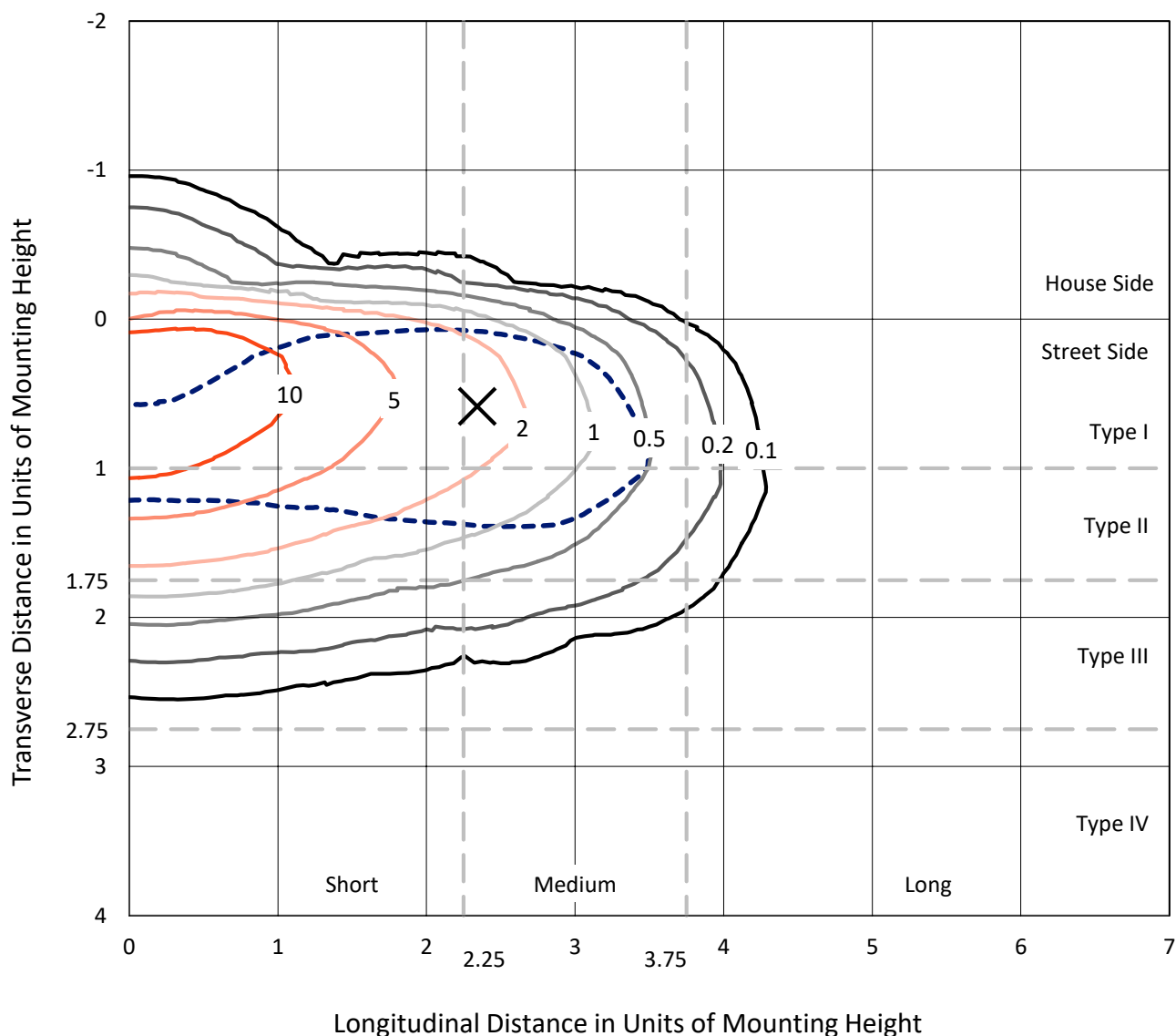
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

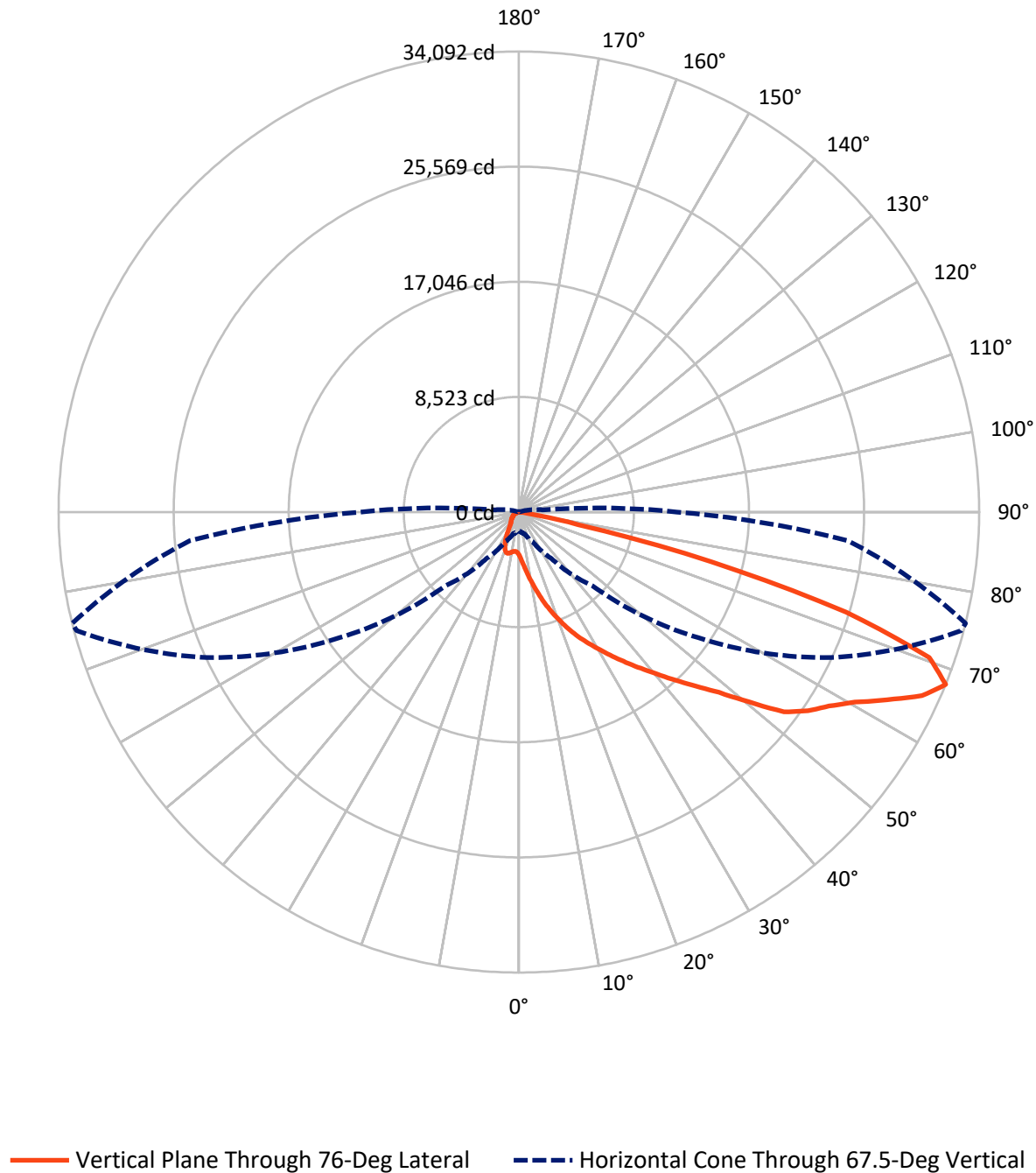
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 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	1863.1	0.0	1863.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	35656.9	0.0	35656.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	37520.0	0.0	37520.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.8	1.1
10°-20°	1568.9	4.2
20°-30°	3192.2	8.5
30°-40°	5540.6	14.8
40°-50°	7828.2	20.9
50°-60°	8877.6	23.7
60°-70°	7363.1	19.6
70°-80°	2667.1	7.1
80°-90°	86.5	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°	37520.0	100.0
0°-180°	37520.0	100.0

Coefficient of Utilization



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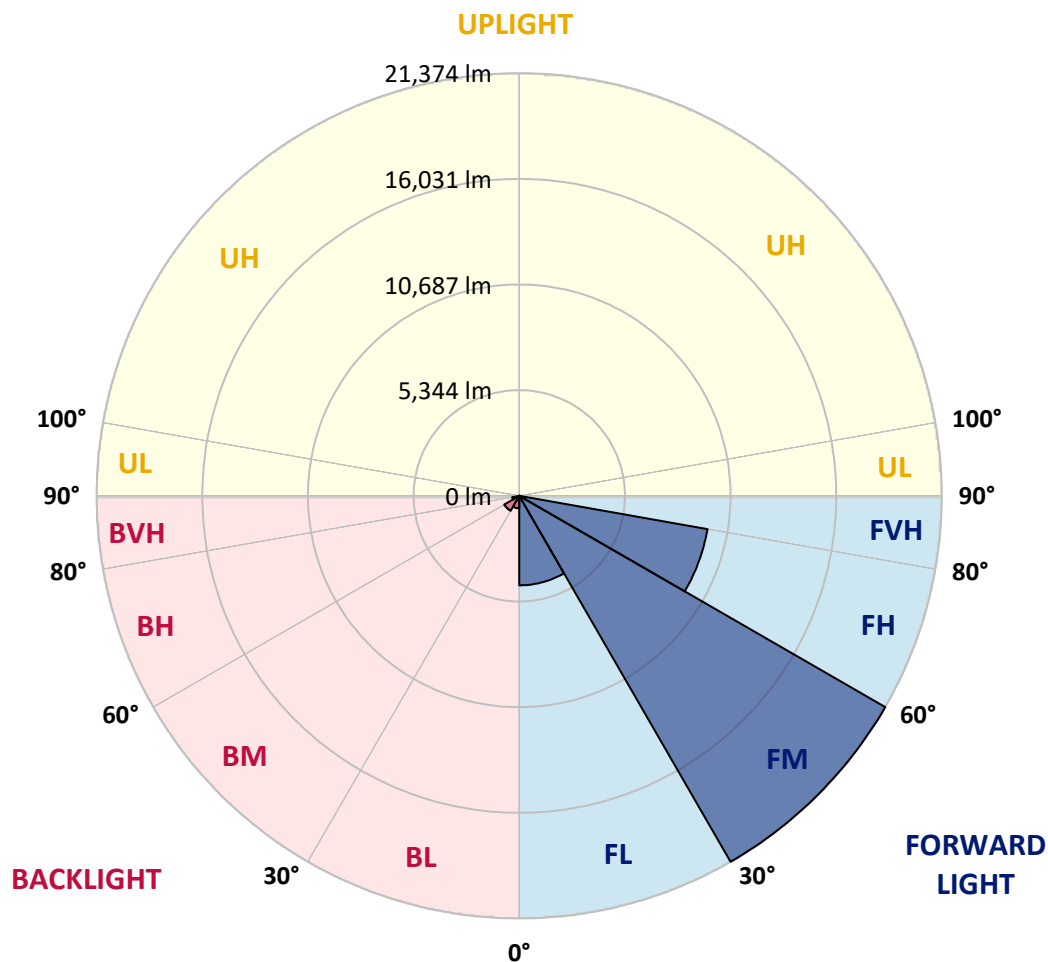
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4528.5	12.1			
FM	(30°-60°)	21374.4	57.0			
FH	(60°-80°)	9670.2	25.8			G4/12000
FVH	(80°-90°)	83.8	0.2			G1/100
BL	(0°-30°)	628.3	1.7	B2/1000		
BM	(30°-60°)	872.0	2.3	B1/1000		
BH	(60°-80°)	360.1	1.0	B1/500		G1/500
BVH	(80°-90°)	2.7	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°	3182.8	3182.8	3182.8	3182.8	3182.8	3182.8	3182.8	3182.8	3182.8	3182.8	3182.8
2.5°	4751.2	4644.3	4669.0	4599.9	4475.0	4218.5	3999.9	3792.7	3551.0	3542.8	3343.9
5°	6406.7	6316.2	6304.7	6165.0	5938.1	5502.5	5078.3	4595.0	4055.7	4016.3	3593.8
7.5°	7909.3	7836.9	7810.6	7644.6	7222.1	6797.9	6245.6	5535.3	4692.0	4619.6	3930.8
10°	9063.4	9028.8	9035.4	8917.1	8555.4	8160.8	7435.8	6530.0	5413.7	5301.9	4335.2
12.5°	9938.0	9946.2	10005.4	9933.0	9730.8	9438.2	8663.9	7590.3	6212.7	6059.8	4797.2
15°	10580.8	10621.9	10730.4	10820.8	10806.0	10552.8	9842.6	8667.2	7061.0	6891.6	5311.8
17.5°	10996.7	11042.7	11200.6	11401.1	11585.3	11526.1	10980.3	9706.2	7919.1	7723.5	5862.5
20°	11361.7	11415.9	11585.3	11849.9	12193.5	12267.5	11909.1	10713.9	8775.7	8537.3	6431.3
22.5°	12152.4	12150.8	12254.4	12408.9	12736.1	12926.8	12699.9	11649.4	9622.3	9374.1	7011.7
25°	13582.7	13528.5	13492.3	13370.6	13443.0	13561.4	13434.8	12524.0	10473.9	10222.4	7600.2
27.5°	15282.6	15315.5	15022.9	14695.7	14442.5	14320.9	14113.7	13334.5	11292.6	11016.4	8175.6
30°	17076.2	17086.1	16740.8	16323.3	15766.0	15304.0	14945.6	14108.8	12134.4	11833.5	8734.6
32.5°	18693.9	18629.8	18287.8	17719.0	17015.4	16495.9	15751.2	14973.5	13025.4	12734.4	9356.0
35°	19976.2	19900.6	19484.7	18966.8	18236.9	17714.1	16818.1	15836.6	13962.5	13678.1	9979.1
37.5°	20913.3	20824.5	20397.1	19864.4	19234.8	18930.7	18056.0	16775.4	14985.1	14679.3	10635.0
40°	21238.8	21161.6	20893.6	20504.0	19997.6	19928.6	19369.6	17855.5	16098.0	15772.5	11378.1
42.5°	21044.8	20969.2	20873.9	20742.3	20531.9	20597.7	20609.2	19086.8	17334.3	17013.7	12198.5
45°	20275.4	20208.0	20306.7	20499.0	20760.4	21085.9	21740.2	20410.3	18715.3	18373.3	13147.1
47.5°	19142.7	19093.4	19366.3	19846.4	20610.8	21508.4	22774.3	21801.1	20265.6	19948.3	14330.7
50°	17531.6	17523.4	18069.2	18945.4	20120.9	21712.3	23842.9	23382.6	22419.2	22085.5	15976.4
52.5°	15022.9	15039.3	16112.8	17515.2	19261.1	21574.2	24530.1	25414.6	24924.7	24577.8	17401.7
55°	12634.1	12732.8	13493.9	15516.1	17942.6	21061.3	24766.8	26363.2	26307.3	25978.5	18194.1
57.5°	10294.7	10473.9	11207.1	13096.1	16017.5	19879.2	24637.0	26774.2	27336.4	27084.9	19239.7
60°	7759.7	7841.9	8686.9	10452.5	13546.6	17722.3	23695.0	26997.8	28743.7	28569.4	20757.1
62.5°	4936.9	5142.4	5892.1	7595.3	10547.9	14726.9	22106.9	26994.5	30504.4	30599.8	22715.1
65°	2600.8	2840.8	3238.7	4706.8	7248.4	11381.4	19718.1	26741.3	32664.6	32797.8	24245.7
67.5°	1402.3	1471.4	1681.8	2443.0	4203.7	7710.4	16208.2	25491.9	33915.7	34091.6	24459.4
70°	1025.9	1063.7	1142.6	1351.4	2115.8	4478.3	11826.9	22659.2	32302.9	32237.2	21732.0
72.5°	787.5	846.7	905.8	989.7	1216.6	2390.4	7363.5	17743.7	25774.6	25340.6	16244.4
75°	621.4	631.3	715.1	790.8	912.4	1361.2	3269.9	10334.2	15731.4	14703.9	8423.9
77.5°	496.5	503.1	552.4	618.1	733.2	894.3	1012.7	4065.6	5022.4	4481.5	1828.1
80°	294.3	310.7	411.0	476.8	608.3	563.9	369.9	882.8	784.2	710.2	307.4
82.5°	164.4	177.6	231.8	376.5	424.2	269.6	184.1	238.4	184.1	179.2	87.1
85°	0.0	8.2	149.6	233.4	172.6	59.2	77.3	78.9	54.3	51.0	34.5
87.5°	0.0	0.0	46.0	44.4	6.6	9.9	18.1	26.3	21.4	21.4	18.1
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°	3182.8	3182.8	3182.8	3182.8	3182.8	3182.8	3182.8	3182.8	3182.8	3182.8	3182.8
2.5°	3245.3	3156.5	2988.8	2824.4	2686.3	2572.9	2470.9	2429.8	2397.0	2392.0	2365.7
5°	3389.9	3210.7	2890.2	2627.1	2451.2	2326.3	2219.4	2153.6	2102.7	2082.9	2064.9
7.5°	3608.6	3337.3	2877.0	2574.5	2364.1	2153.6	1956.4	1742.6	1609.5	1558.5	1528.9
10°	3874.9	3505.0	2926.3	2559.7	2191.5	1747.6	1420.4	1149.2	1039.0	1002.8	993.0
12.5°	4185.6	3713.8	3011.8	2467.6	1823.2	1241.2	979.8	887.8	863.1	851.6	851.6
15°	4542.4	3942.3	3072.6	2201.3	1348.1	938.7	848.3	805.6	779.3	764.5	766.1
17.5°	4907.3	4165.9	3043.0	1815.0	994.6	835.2	767.7	721.7	685.5	670.8	667.5
20°	5275.6	4373.0	2878.6	1351.4	841.7	757.9	682.3	631.3	595.1	580.3	577.0
22.5°	5657.0	4548.9	2589.3	991.3	756.2	672.4	598.4	547.5	512.9	499.8	493.2
25°	6028.5	4692.0	2184.9	802.3	675.7	591.8	521.1	473.5	442.2	429.1	427.4
27.5°	6375.4	4782.4	1716.3	708.6	605.0	519.5	455.4	412.6	386.3	376.5	374.8
30°	6687.8	4790.6	1269.2	639.5	542.5	457.0	397.8	360.0	337.0	327.2	323.9
32.5°	7003.4	4721.6	923.9	577.0	485.0	402.8	345.2	315.6	299.2	291.0	291.0
35°	7301.0	4562.1	720.1	522.8	429.1	350.2	304.1	282.8	272.9	264.7	264.7
37.5°	7592.0	4333.6	611.6	475.1	376.5	305.8	268.0	254.8	246.6	238.4	238.4
40°	7887.9	4045.9	555.7	430.7	333.7	271.3	238.4	226.9	218.7	212.1	210.4
42.5°	8251.2	3713.8	519.5	389.6	295.9	240.0	210.4	197.3	190.7	184.1	180.8
45°	8672.1	3427.7	489.9	348.5	264.7	213.7	182.5	169.3	159.5	151.2	149.6
47.5°	9278.7	3220.6	450.5	304.1	235.1	185.8	157.8	143.0	128.2	120.0	118.4
50°	10053.1	3049.6	399.5	264.7	205.5	157.8	131.5	113.4	100.3	92.1	92.1
52.5°	10437.8	2826.0	353.5	230.2	172.6	133.2	106.9	85.5	78.9	70.7	70.7
55°	10592.3	2655.1	307.4	195.6	143.0	110.1	83.8	65.8	60.8	55.9	54.3
57.5°	11026.3	2605.7	268.0	166.0	118.4	87.1	64.1	49.3	46.0	39.5	39.5
60°	11725.0	2630.4	231.8	141.4	95.4	67.4	47.7	37.8	34.5	27.9	27.9
62.5°	12479.6	2599.2	195.6	121.7	74.0	49.3	32.9	27.9	27.9	16.4	14.8
65°	12624.3	2314.8	167.7	100.3	57.5	36.2	21.4	18.1	24.7	3.3	0.0
67.5°	11716.8	1795.2	144.7	77.3	42.7	27.9	16.4	8.2	21.4	0.0	0.0
70°	9369.2	1140.9	116.7	55.9	32.9	23.0	13.2	3.3	16.4	0.0	0.0
72.5°	6625.3	662.5	92.1	39.5	27.9	18.1	9.9	0.0	9.9	0.0	0.0
75°	3350.5	353.5	57.5	29.6	21.4	13.2	6.6	0.0	1.6	0.0	0.0
77.5°	725.0	164.4	36.2	21.4	14.8	8.2	3.3	0.0	0.0	0.0	0.0
80°	157.8	72.3	23.0	13.2	8.2	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	57.5	37.8	11.5	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.2	19.7	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.4	6.6	1.6	1.6	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)