

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: P323692

Luminaire Tested: **GAN-SA8C-830-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323692
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-SA8C-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 38483 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

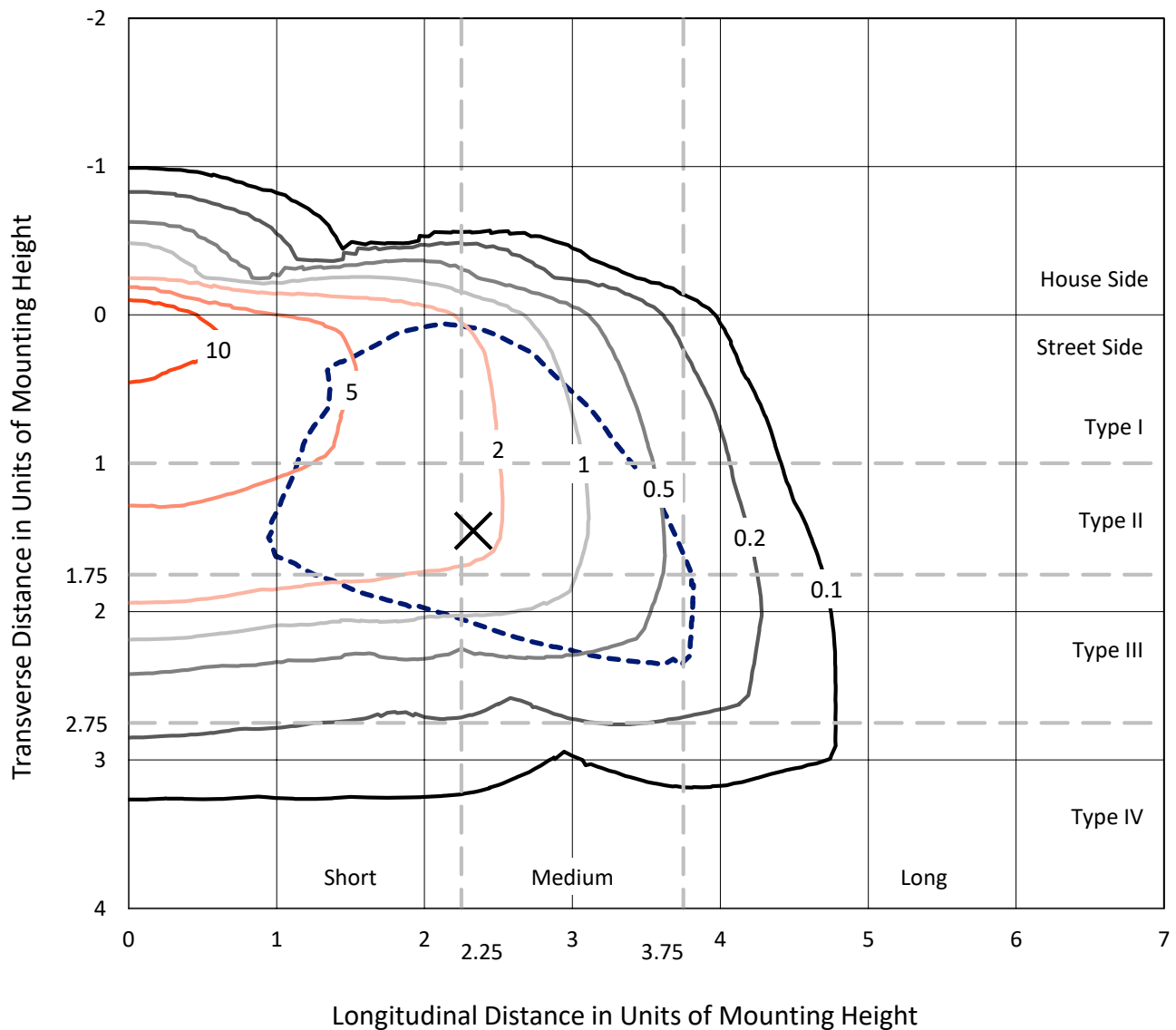
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323692
 CATALOG NUMBER: GAN-SA8C-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

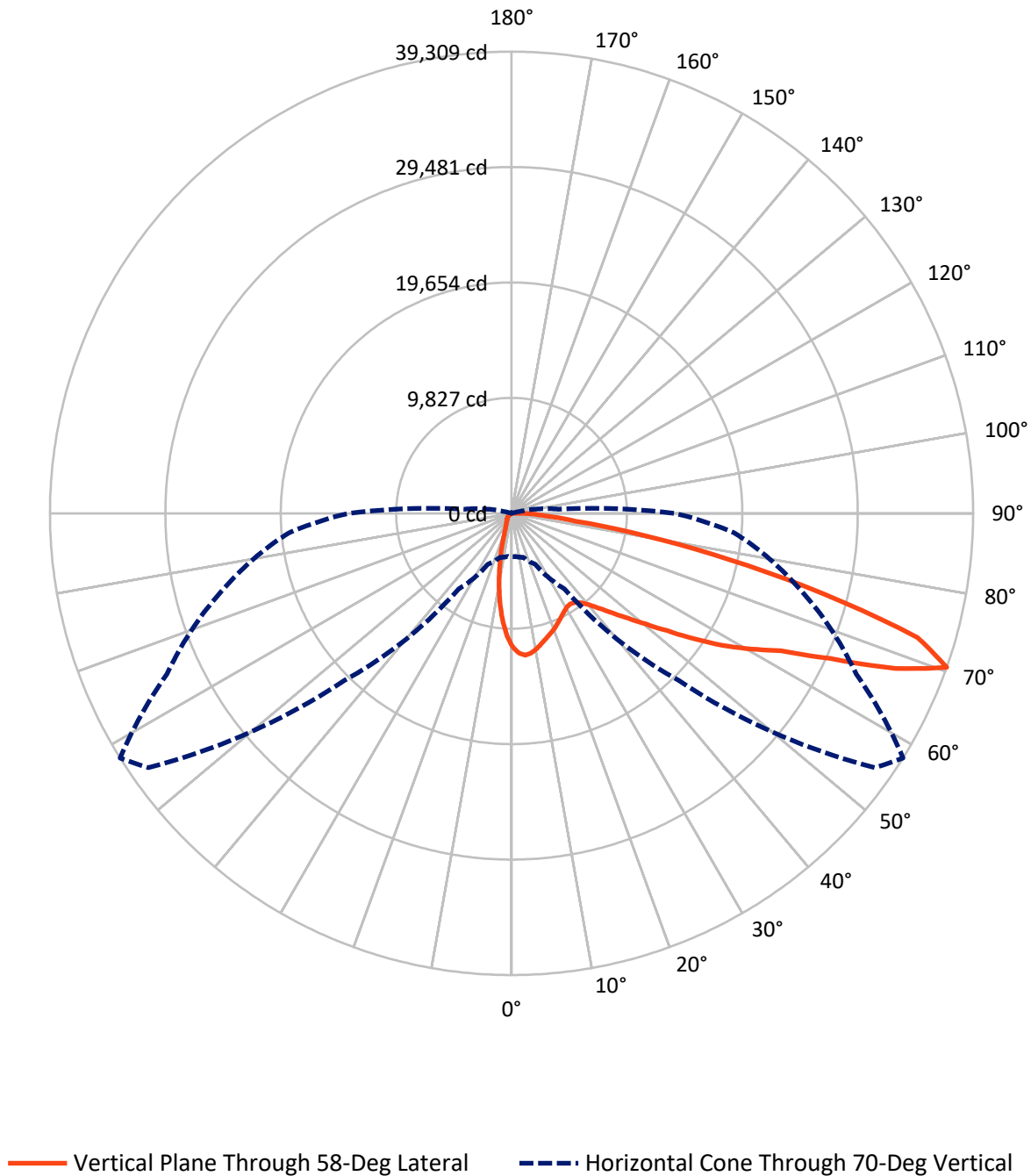
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P323692
CATALOG NUMBER: GAN-SA8C-830-U-SL3-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3293.3	0.0	3293.3
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	35189.7	0.0	35189.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	38483.0	0.0	38483.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	929.6	2.4
10°-20°	1951.0	5.1
20°-30°	2564.9	6.7
30°-40°	3396.9	8.8
40°-50°	5077.3	13.2
50°-60°	8133.6	21.1
60°-70°	10252.4	26.6
70°-80°	5530.1	14.4
80°-90°	647.3	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°	38483.0	100.0
0°-180°	38483.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323692

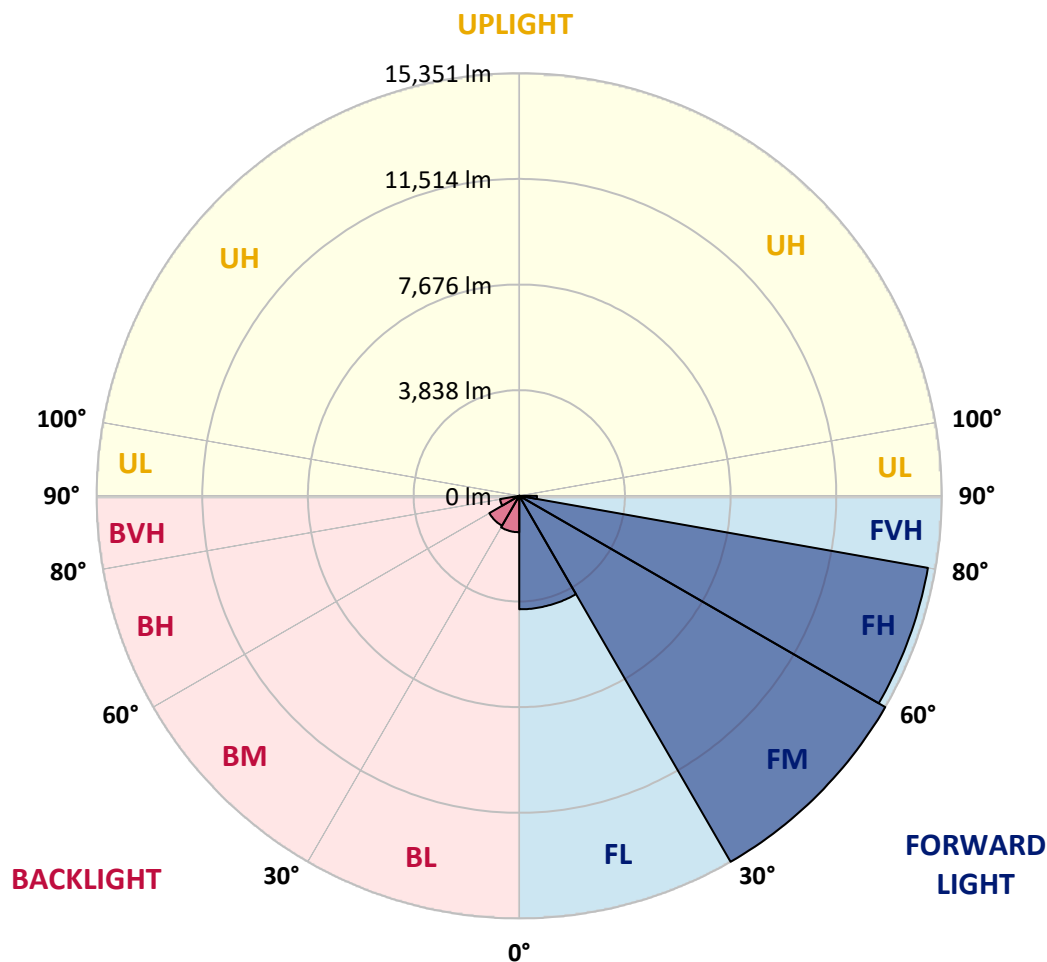
CATALOG NUMBER: GAN-SA8C-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4122.3	10.7			
FM	(30°-60°)	15351.5	39.9			
FH	(60°-80°)	15074.2	39.2			G5
FVH	(80°-90°)	641.7	1.7			G4/750
BL	(0°-30°)	1323.1	3.4	B3/2500		
BM	(30°-60°)	1256.3	3.3	B2/2500		
BH	(60°-80°)	708.2	1.8	B2/1000		G2/1000
BVH	(80°-90°)	5.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P323692

CATALOG NUMBER: GAN-SA8C-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11367.7	11367.7	11367.7	11367.7	11367.7	11367.7	11367.7	11367.7	11367.7	11367.7	11367.7
2.5°	12310.2	12279.8	12268.6	12249.4	12175.8	12103.8	11961.4	11921.4	11831.7	11618.9	11393.3
5°	12319.8	12318.2	12351.8	12343.8	12318.2	12284.6	12182.2	12129.4	11977.4	11673.3	11260.5
7.5°	11726.1	11756.5	11831.7	11892.6	11963.0	12054.2	12067.0	12015.8	11891.0	11562.9	11015.7
10°	10929.2	10977.3	11082.9	11202.9	11386.9	11569.3	11732.5	11726.1	11682.9	11359.7	10721.2
12.5°	10130.8	10186.8	10308.4	10486.0	10746.8	11044.5	11335.7	11375.7	11447.7	11177.3	10449.2
15°	9431.5	9479.5	9599.5	9817.1	10140.4	10540.4	10967.7	11041.3	11226.9	11034.9	10222.0
17.5°	8837.8	8868.2	8956.2	9197.8	9572.3	10057.1	10612.4	10756.4	11033.3	10922.8	10025.1
20°	8423.4	8428.2	8485.8	8655.4	9029.8	9572.3	10244.4	10450.8	10828.4	10826.8	9821.9
22.5°	8218.5	8202.5	8213.7	8311.3	8586.6	9109.8	9876.3	10121.2	10644.4	10745.2	9615.5
25°	8180.1	8167.3	8135.3	8148.1	8314.5	8705.0	9505.1	9788.3	10482.8	10695.6	9436.3
27.5°	8300.1	8312.9	8258.5	8200.9	8213.7	8442.6	9175.4	9503.5	10351.6	10695.6	9309.9
30°	8541.8	8548.2	8508.2	8433.0	8332.1	8369.0	8946.6	9274.7	10286.0	10769.2	9229.9
32.5°	8809.0	8844.2	8839.4	8778.6	8634.6	8485.8	8892.2	9191.4	10281.2	10932.4	9221.9
35°	9140.2	9180.2	9247.5	9234.7	9084.2	8839.4	9077.8	9313.1	10375.6	11201.3	9308.3
37.5°	9492.3	9553.1	9697.1	9765.9	9668.3	9391.5	9493.9	9661.9	10628.4	11636.5	9527.5
40°	9833.1	9901.9	10164.4	10434.8	10361.2	10076.3	10124.4	10258.8	11078.1	12262.2	9943.5
42.5°	10167.6	10270.0	10655.6	11100.5	11188.5	10961.2	10986.9	11094.1	11745.3	13123.1	10623.6
45°	10567.6	10682.8	11254.1	11802.9	12038.2	11939.0	12047.8	12118.2	12617.4	14260.8	11540.5
47.5°	11154.9	11287.7	11988.6	12614.2	13027.1	13091.1	13310.3	13356.7	13720.0	15585.8	12735.9
50°	12300.6	12337.4	12971.1	13539.1	14134.4	14518.5	14768.1	14803.3	15054.5	17033.9	14228.8
52.5°	13742.4	13766.4	14124.8	14505.7	15182.5	15966.6	16550.7	16600.3	16653.1	18445.3	15702.6
55°	15174.5	15171.3	15408.2	15632.2	16406.7	17546.0	18813.3	18843.7	18464.5	19784.7	16829.1
57.5°	16069.0	16155.4	16515.5	16803.5	17885.2	19346.2	21104.8	21216.8	20367.1	20776.8	17942.8
60°	15784.2	15825.8	16624.3	17690.0	19727.0	21904.9	23423.5	23452.3	21797.7	21767.3	19351.0
62.5°	13447.9	13470.3	14724.9	16921.9	20660.0	25223.7	26220.6	25751.7	23442.7	23141.8	21036.0
65°	9217.1	9362.7	10410.8	13126.3	18946.2	27305.5	30550.7	29774.6	25950.2	25122.9	22559.4
67.5°	5427.8	5397.4	5915.9	7916.1	13915.2	25923.0	36028.1	35256.8	29369.7	26449.4	22112.9
70°	3707.6	3686.8	3885.2	4792.5	7855.3	20109.5	37751.5	39308.5	32389.3	25556.5	19031.0
72.5°	2646.7	2657.9	2950.7	3723.6	4931.8	11716.5	32464.5	36149.7	31443.6	22279.3	14465.6
75°	1797.0	1827.4	2246.7	3054.7	4323.7	5960.7	23037.8	27479.9	25604.5	16192.2	8314.5
77.5°	966.5	1000.1	1494.6	2461.1	3909.2	4141.3	14819.3	18912.6	16083.4	7279.2	2409.9
80°	403.2	422.4	699.3	1789.0	3378.0	3637.2	8719.4	11468.5	6853.6	1435.4	537.7
82.5°	174.4	184.0	291.2	1067.3	2525.1	3070.8	4616.5	5517.4	2077.0	315.2	270.4
85°	33.6	35.2	120.0	564.9	1611.4	1733.0	2992.3	2933.1	932.9	136.0	196.8
87.5°	0.0	0.0	28.8	177.6	473.7	944.1	1825.8	1803.4	316.8	65.6	73.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P323692

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11367.7	11367.7	11367.7	11367.7	11367.7	11367.7	11367.7	11367.7	11367.7	11367.7	11367.7
2.5°	11278.1	11167.7	10935.6	10649.2	10430.0	10188.4	9996.3	9753.1	9647.5	9652.3	9594.7
5°	11025.3	10798.0	10284.4	9636.3	9137.0	8621.8	8178.5	7736.9	7476.1	7391.2	7311.2
7.5°	10663.6	10303.6	9484.3	8485.8	7640.9	6815.2	6096.7	5464.6	5064.6	4869.4	4797.3
10°	10255.6	9749.9	8564.2	7248.8	6042.3	4925.4	3994.1	3184.4	2861.1	2641.9	2585.9
12.5°	9897.1	9212.3	7664.9	5979.9	4547.7	3200.4	2312.3	1808.2	1589.0	1502.6	1488.2
15°	9559.5	8709.8	6799.2	4831.0	3149.2	1969.8	1470.6	1299.3	1248.1	1233.7	1233.7
17.5°	9241.1	8231.3	5952.7	3699.6	2083.4	1381.0	1217.7	1179.3	1163.3	1161.7	1163.3
20°	8908.2	7752.9	5120.6	2710.7	1454.6	1169.7	1124.9	1104.1	1099.3	1099.3	1099.3
22.5°	8589.8	7274.4	4310.9	1936.2	1166.5	1067.3	1044.9	1030.5	1025.7	1024.1	1020.9
25°	8284.1	6820.0	3520.4	1368.2	1024.1	977.7	958.5	939.3	924.9	916.9	912.1
27.5°	8032.9	6415.1	2784.3	1097.7	924.9	884.9	860.9	832.1	796.9	780.9	774.5
30°	7832.9	6045.5	2145.8	926.5	832.1	792.1	755.3	705.7	654.5	627.3	625.7
32.5°	7676.1	5682.2	1629.0	819.3	748.9	699.3	646.5	584.1	524.9	494.5	492.9
35°	7599.3	5362.2	1244.9	740.9	675.3	612.9	547.3	478.5	420.8	392.0	388.8
37.5°	7650.5	5091.8	971.3	675.3	612.9	540.9	464.1	392.0	340.8	315.2	313.6
40°	7837.7	4919.0	788.9	619.3	560.1	472.1	388.8	321.6	278.4	257.6	256.0
42.5°	8236.1	4855.0	673.7	572.9	508.9	408.0	323.2	265.6	225.6	211.2	208.0
45°	8901.8	4949.4	595.3	528.1	456.1	347.2	267.2	217.6	182.4	171.2	169.6
47.5°	9788.3	5197.4	539.3	484.9	408.0	292.8	222.4	176.0	148.8	137.6	136.0
50°	10930.8	5591.0	492.9	441.7	363.2	248.0	184.0	139.2	115.2	107.2	107.2
52.5°	12174.2	6059.9	451.3	401.6	318.4	206.4	148.8	107.2	91.2	81.6	81.6
55°	13201.5	6469.5	406.4	371.2	264.0	171.2	113.6	81.6	67.2	62.4	62.4
57.5°	14227.2	6906.4	355.2	318.4	211.2	139.2	86.4	60.8	49.6	46.4	46.4
60°	15557.0	7440.8	305.6	259.2	166.4	105.6	64.0	43.2	36.8	35.2	35.2
62.5°	17019.5	7754.5	260.8	208.0	129.6	78.4	46.4	28.8	27.2	27.2	25.6
65°	17914.0	7311.2	219.2	166.4	100.8	59.2	30.4	20.8	24.0	22.4	19.2
67.5°	16773.1	5723.9	179.2	129.6	78.4	44.8	19.2	14.4	25.6	20.8	16.0
70°	13888.0	4006.9	139.2	91.2	62.4	38.4	12.8	9.6	27.2	20.8	12.8
72.5°	10393.2	2681.9	110.4	60.8	46.4	33.6	11.2	4.8	24.0	17.6	11.2
75°	5679.0	1080.1	88.0	38.4	28.8	24.0	8.0	3.2	16.0	12.8	8.0
77.5°	1494.6	284.8	64.0	25.6	16.0	9.6	4.8	1.6	8.0	6.4	3.2
80°	380.8	110.4	41.6	17.6	11.2	4.8	0.0	0.0	1.6	0.0	0.0
82.5°	203.2	46.4	25.6	12.8	6.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	153.6	30.4	14.4	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	59.2	9.6	4.8	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)