

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: P322084

Luminaire Tested: **GAN-SA0B-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31975 lumens
Efficiency: N/A
Efficacy: 76.3 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

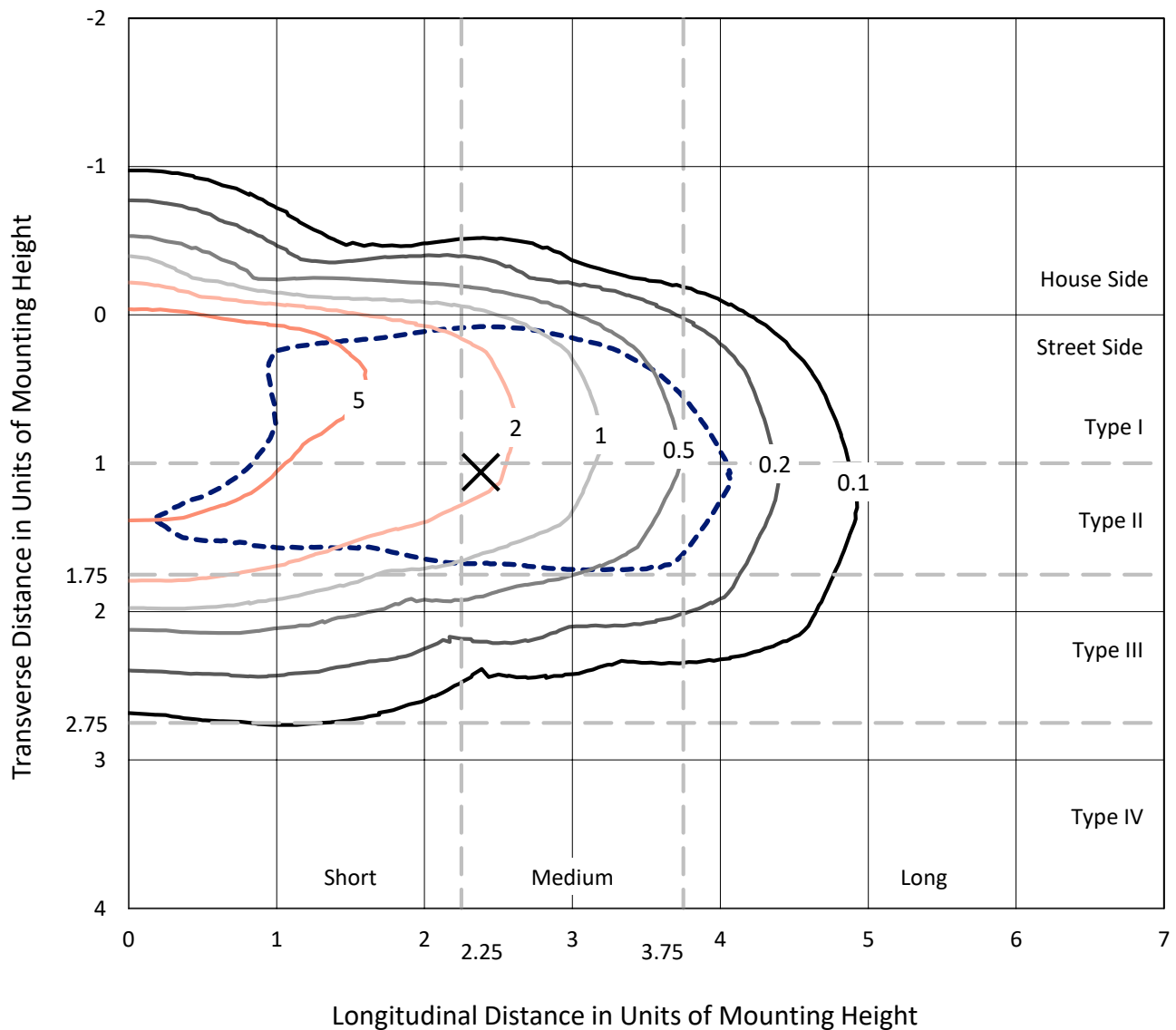


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Iso-Footcandle Lines of Horizontal Illumination

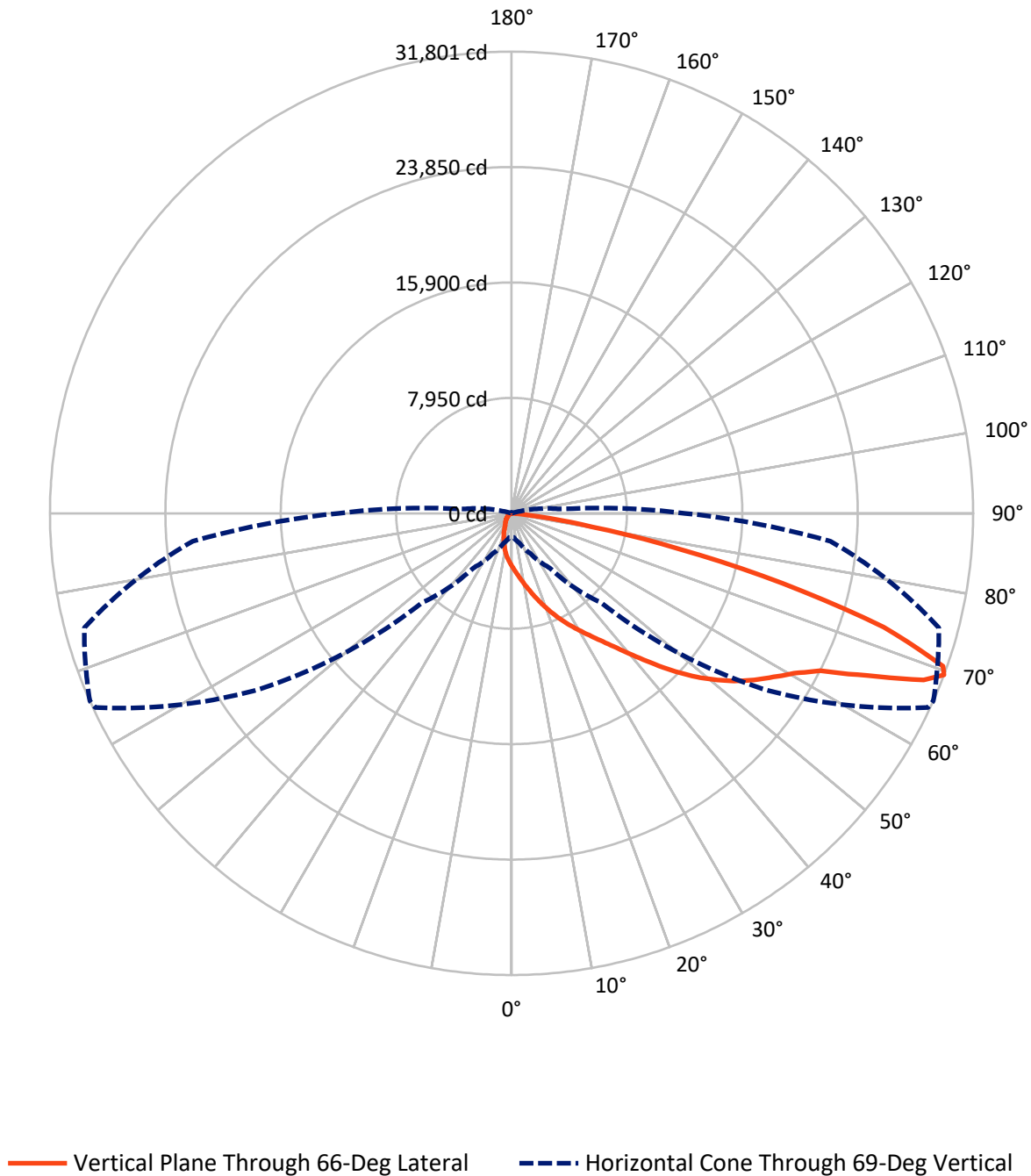
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	1918.0	0.0	1918.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	30056.9	0.0	30056.9
	% Fixture	94.0	0.0	94.0
Total	Lumens	31975.0	0.0	31975.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.7	1.1
10°-20°	1046.9	3.3
20°-30°	1823.0	5.7
30°-40°	3198.4	10.0
40°-50°	5353.6	16.7
50°-60°	7869.3	24.6
60°-70°	8079.7	25.3
70°-80°	3988.7	12.5
80°-90°	263.7	0.8
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°	31975.0	100.0
0°-180°	31975.0	100.0

Coefficient of Utilization



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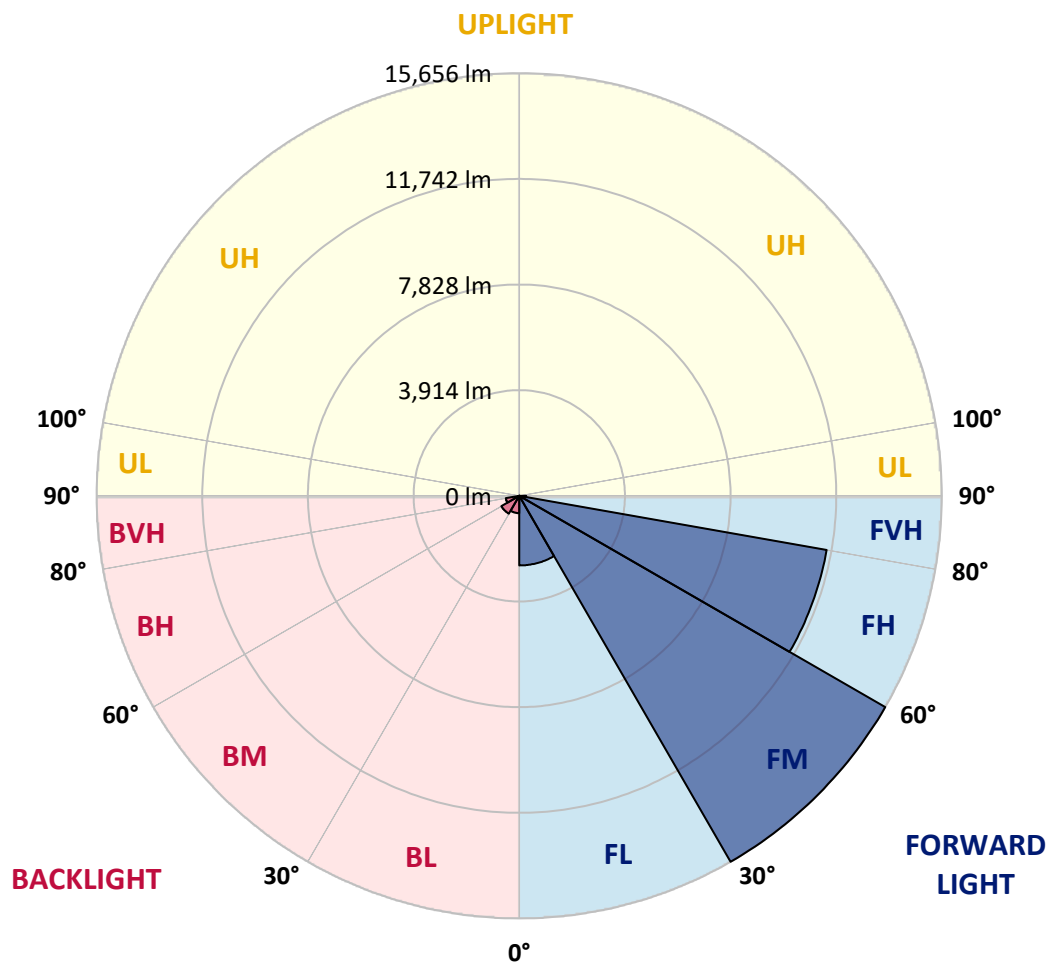
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2580.1	8.1			
FM	(30°-60°)	15656.5	49.0			
FH	(60°-80°)	11563.0	36.2			G4/12000
FVH	(80°-90°)	257.4	0.8			G3/500
BL	(0°-30°)	641.5	2.0	B2/1000		
BM	(30°-60°)	764.7	2.4	B1/1000		
BH	(60°-80°)	505.5	1.6	B2/1000		G2/1000
BVH	(80°-90°)	6.4	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°	66°	75°	85°
0°	3638.9	3638.9	3638.9	3638.9	3638.9	3638.9	3638.9	3638.9	3638.9	3638.9	3638.9
2.5°	4282.8	4264.6	4257.0	4223.6	4165.9	4121.8	4036.8	3938.0	3919.8	3824.1	3707.2
5°	4838.6	4823.5	4812.8	4765.7	4706.5	4595.7	4440.7	4257.0	4222.0	4039.8	3805.9
7.5°	5225.9	5253.3	5253.3	5222.9	5148.5	5064.9	4875.1	4624.5	4580.5	4301.0	3938.0
10°	5452.2	5485.6	5511.4	5537.3	5526.6	5493.2	5314.0	5031.5	4978.4	4607.8	4091.4
12.5°	5473.5	5506.9	5579.8	5687.6	5792.4	5868.3	5756.0	5482.6	5421.8	4963.2	4273.7
15°	5355.0	5389.9	5502.3	5711.9	5965.5	6187.3	6223.7	5982.2	5920.0	5386.9	4501.5
17.5°	5148.5	5171.2	5332.2	5622.3	6020.2	6427.2	6647.4	6518.4	6460.6	5871.4	4755.1
20°	4995.1	5011.8	5153.0	5464.4	5986.8	6577.6	7048.4	7087.9	7027.1	6390.8	5030.0
22.5°	5257.8	5288.2	5292.7	5440.1	5895.7	6652.0	7400.7	7648.3	7602.7	6942.1	5300.3
25°	5976.2	6011.1	5895.7	5804.6	5973.1	6685.4	7703.0	8222.4	8185.9	7535.9	5572.2
27.5°	6925.4	6961.8	6813.0	6541.1	6378.6	6811.5	7971.8	8805.5	8804.0	8164.6	5865.3
30°	7857.9	7894.3	7742.4	7470.6	7097.0	7168.4	8204.1	9416.1	9425.2	8813.1	6176.6
32.5°	8835.9	8881.5	8725.1	8375.8	7985.4	7785.0	8530.7	10029.6	10081.3	9564.9	6527.5
35°	9947.6	9953.7	9733.5	9367.5	8917.9	8609.6	9054.6	10717.6	10840.6	10495.9	6972.5
37.5°	11038.1	11082.1	10901.4	10324.3	9911.2	9561.9	9833.7	11577.2	11751.9	11633.4	7554.1
40°	11846.0	11938.7	11912.9	11290.2	10898.3	10649.3	10801.2	12599.3	12821.1	12957.7	8287.7
42.5°	12353.3	12423.1	12541.6	12166.5	11811.1	11852.1	11943.2	13790.0	14063.4	14467.3	9130.6
45°	12935.0	12968.4	13067.1	12901.5	12661.6	13074.7	13155.2	15131.0	15418.1	16090.9	10066.1
47.5°	13645.7	13724.7	13752.0	13600.2	13490.8	14156.0	14323.1	16350.6	16753.0	17829.8	11056.3
50°	14550.9	14572.1	14619.2	14520.5	14411.2	15085.5	15371.0	17630.8	17996.9	19574.8	12032.8
52.5°	15436.3	15512.2	15676.2	15614.0	15569.9	15876.7	16305.0	18785.1	19193.6	21029.7	13007.9
55°	15691.4	15756.7	16323.2	16710.5	17068.9	16851.7	17198.0	19819.3	20261.3	22329.8	13946.4
57.5°	14672.4	14804.5	15785.6	16794.0	18280.9	18367.4	18425.1	20880.9	21277.3	23326.0	14923.0
60°	12096.6	12122.4	13732.3	15462.1	18080.4	19690.2	20217.2	22021.5	22354.1	24254.0	16092.4
62.5°	7693.8	7956.6	9722.9	12165.0	15960.2	19498.9	22384.4	23746.7	23868.2	25367.2	17769.0
65°	3664.7	3834.8	5107.5	7516.2	11560.5	17049.2	23880.4	26867.7	26922.4	27573.9	20009.2
67.5°	2029.0	2111.0	2717.0	4045.9	6758.3	12057.1	23275.9	30564.3	30615.9	29827.7	21974.4
69°	1587.1	1656.9	2133.8	3049.6	4582.0	8665.8	21063.2	31647.1	31800.5	30473.2	22044.2
70°	1347.1	1415.4	1837.7	2575.8	3684.4	6696.0	18748.6	31378.3	31540.8	30412.4	21523.3
72.5°	824.7	864.2	1224.1	1813.4	2469.4	3368.5	11562.0	26536.6	26811.5	27897.4	18498.0
75°	555.9	577.1	765.4	1251.4	1766.3	1734.4	6006.5	18704.6	19299.9	21701.0	13662.4
77.5°	397.9	417.6	513.3	809.5	1237.8	1145.1	2720.0	11624.3	11751.9	13015.4	7450.8
80°	226.3	244.5	363.0	481.4	839.9	763.9	1081.3	5552.4	5616.2	5581.3	2487.7
82.5°	118.5	133.6	199.0	317.4	539.1	499.7	449.5	1858.9	1868.0	1553.7	545.2
85°	22.8	27.3	98.7	217.2	277.9	217.2	183.8	435.9	445.0	393.3	135.2
87.5°	0.0	1.5	39.5	48.6	54.7	56.2	59.2	85.0	91.1	123.0	36.4
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°	3638.9	3638.9	3638.9	3638.9	3638.9	3638.9	3638.9	3638.9	3638.9	3638.9	3638.9
2.5°	3655.6	3600.9	3496.1	3374.6	3280.4	3187.8	3114.9	3039.0	3011.6	2998.0	2996.4
5°	3692.0	3576.6	3354.9	3127.0	2940.2	2764.1	2638.0	2518.0	2461.8	2436.0	2425.4
7.5°	3752.8	3567.5	3210.6	2862.8	2594.0	2373.8	2199.1	2068.5	2003.2	1975.9	1965.2
10°	3824.1	3555.3	3042.0	2583.3	2240.1	2012.3	1839.2	1710.1	1638.7	1608.3	1593.1
12.5°	3907.7	3534.1	2847.6	2300.9	1937.9	1710.1	1500.5	1341.0	1259.0	1224.1	1207.4
15°	4010.9	3512.8	2644.1	2035.1	1672.1	1394.2	1164.9	1057.0	1040.3	1034.2	1035.8
17.5°	4112.7	3479.4	2422.4	1772.3	1392.7	1088.9	972.0	965.9	968.9	968.9	968.9
20°	4203.8	3403.5	2180.9	1547.6	1126.9	918.8	894.5	883.9	876.3	870.2	862.6
22.5°	4275.2	3301.7	1948.5	1324.3	920.3	841.4	803.4	770.0	742.7	724.4	715.3
25°	4323.8	3166.5	1735.9	1110.2	827.7	765.4	697.1	640.9	598.4	572.6	561.9
27.5°	4360.3	3020.7	1546.1	929.5	763.9	677.3	587.7	520.9	476.9	454.1	445.0
30°	4386.1	2855.2	1379.0	817.1	692.5	584.7	489.0	423.7	391.8	379.7	373.6
32.5°	4410.4	2671.4	1221.1	763.9	625.7	499.7	410.1	359.9	340.2	325.0	320.5
35°	4471.1	2501.3	1070.7	707.7	557.4	426.8	352.3	315.9	296.2	287.0	284.0
37.5°	4615.4	2375.3	926.4	650.0	489.0	369.0	308.3	282.5	264.3	255.1	252.1
40°	4847.8	2311.5	804.9	587.7	422.2	325.0	279.4	255.1	235.4	221.7	218.7
42.5°	5189.5	2320.6	719.9	525.5	369.0	290.1	252.1	223.3	202.0	189.8	186.8
45°	5604.1	2387.4	660.6	464.7	325.0	262.7	221.7	191.4	171.6	161.0	157.9
47.5°	6053.6	2495.3	612.0	410.1	290.1	236.9	191.4	159.5	142.8	133.6	132.1
50°	6527.5	2600.1	561.9	356.9	259.7	211.1	161.0	132.1	118.5	110.9	107.8
52.5°	7007.4	2721.5	516.4	308.3	233.9	180.7	133.6	107.8	97.2	91.1	88.1
55°	7523.7	2812.7	472.3	270.3	208.1	153.4	110.9	89.6	80.5	72.9	71.4
57.5°	8131.2	2953.9	426.8	233.9	177.7	127.6	91.1	71.4	63.8	56.2	54.7
60°	8951.3	3119.5	378.2	206.5	145.8	104.8	74.4	57.7	48.6	42.5	41.0
62.5°	10032.7	3303.2	317.4	180.7	118.5	85.0	59.2	45.6	34.9	27.3	27.3
65°	11404.1	3602.4	259.7	151.9	97.2	69.9	45.6	33.4	19.7	12.1	12.1
67.5°	12204.4	3654.0	209.6	124.5	79.0	59.2	38.0	22.8	6.1	1.5	0.0
69°	11947.8	3354.9	177.7	106.3	68.3	56.2	34.9	16.7	3.0	0.0	0.0
70°	11464.8	3067.8	156.4	94.2	62.3	53.2	33.4	12.1	3.0	0.0	0.0
72.5°	9473.8	2183.9	118.5	69.9	45.6	47.1	30.4	7.6	3.0	0.0	0.0
75°	6901.1	1327.4	85.0	48.6	28.9	34.9	21.3	3.0	1.5	0.0	0.0
77.5°	3839.3	625.7	53.2	27.3	18.2	21.3	10.6	0.0	0.0	0.0	0.0
80°	1246.9	170.1	24.3	15.2	10.6	12.1	4.6	0.0	0.0	0.0	0.0
82.5°	230.8	48.6	13.7	7.6	3.0	3.0	0.0	0.0	0.0	0.0	0.0
85°	50.1	19.7	7.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.7	6.1	1.5	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)