

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: P323209

Luminaire Tested: **GAN-SA5C-740-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29282 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

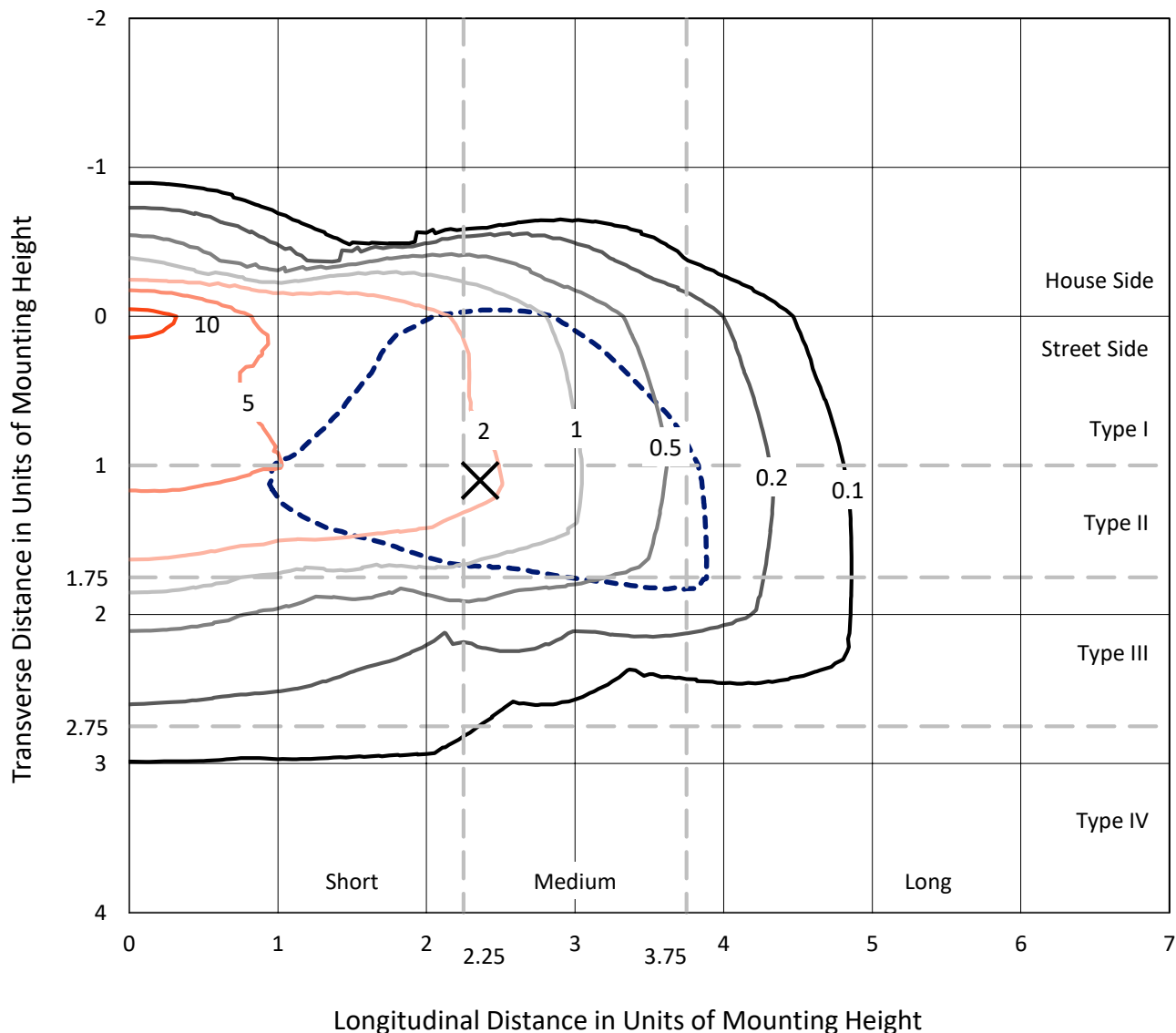
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

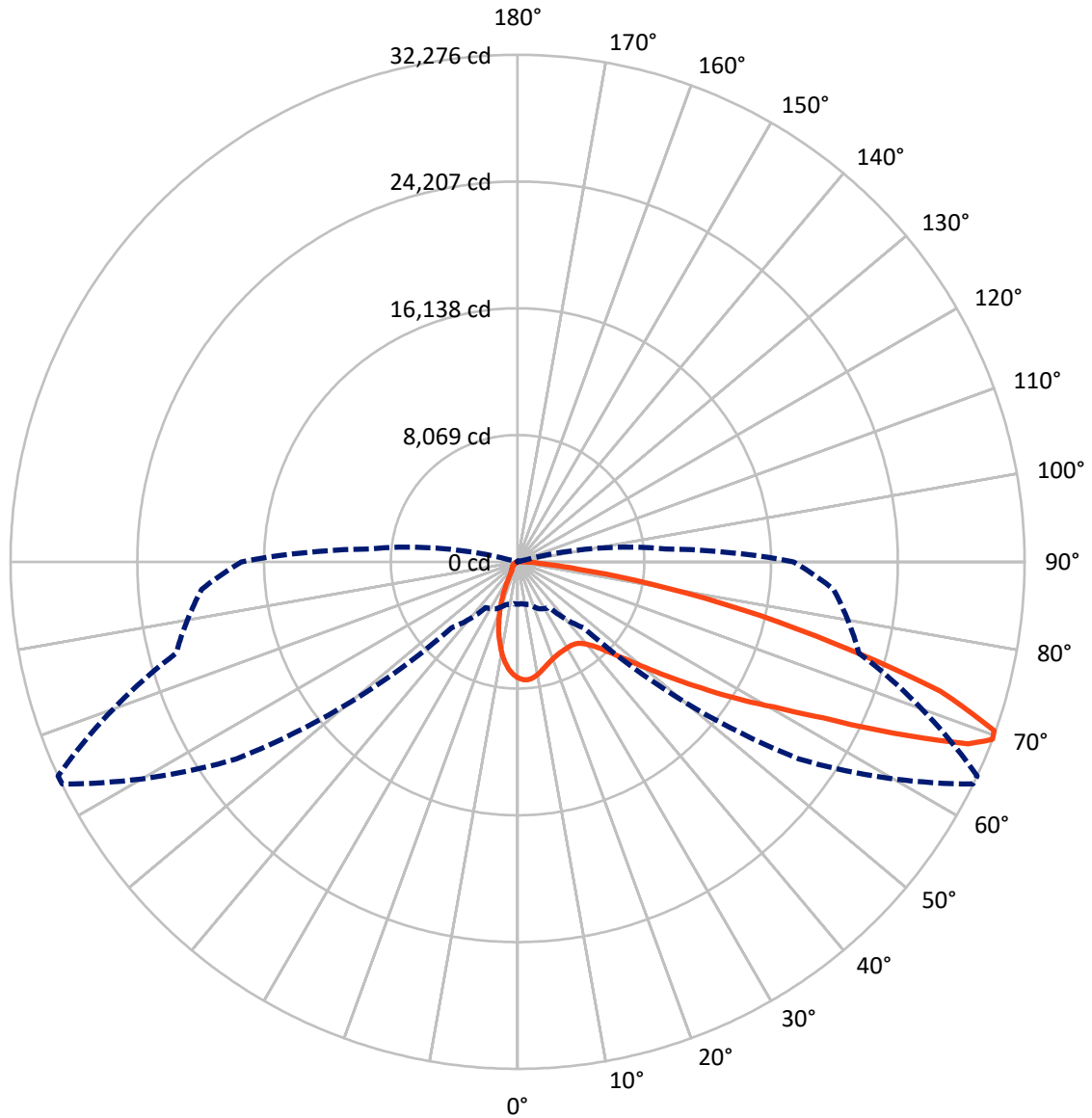
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3451.6	0.0	3451.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	25830.3	0.0	25830.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	29282.0	0.0	29282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.8	2.1
10°-20°	1354.5	4.6
20°-30°	1876.0	6.4
30°-40°	2615.8	8.9
40°-50°	4065.8	13.9
50°-60°	6527.2	22.3
60°-70°	7383.3	25.2
70°-80°	4336.3	14.8
80°-90°	504.4	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°	29282.0	100.0
0°-180°	29282.0	100.0

Coefficient of Utilization

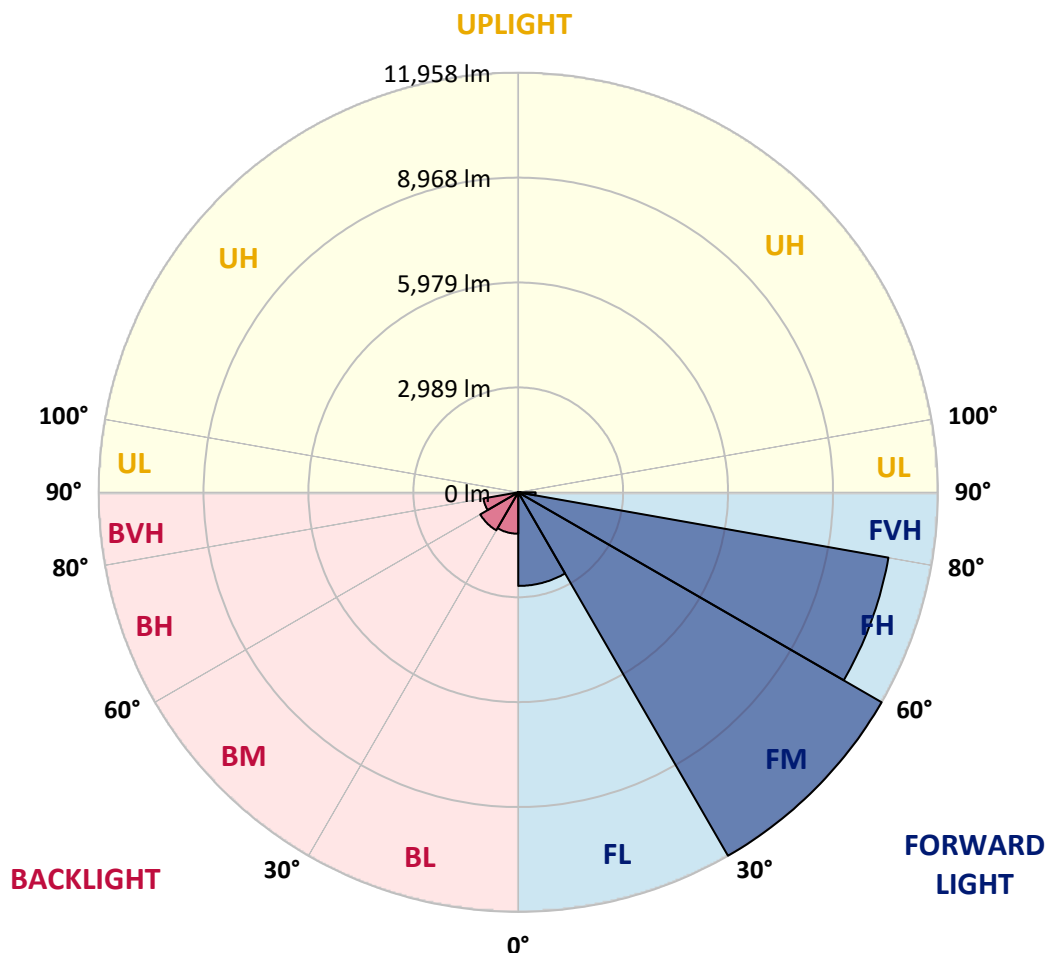


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2668.3	9.1			
FM (30°-60°)	11957.9	40.8			
FH (60°-80°)	10711.1	36.6			G4/12000
FVH (80°-90°)	493.1	1.7			G3/500
BL (0°-30°)	1181.0	4.0	B3/2500		
BM (30°-60°)	1250.8	4.3	B2/2500		
BH (60°-80°)	1008.5	3.4	B3/2500		G3/2500
BVH (80°-90°)	11.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7399.6	7399.6	7399.6	7399.6	7399.6	7399.6	7399.6	7399.6	7399.6	7399.6	7399.6
2.5°	7465.3	7446.7	7461.6	7493.8	7509.9	7509.9	7522.3	7507.4	7512.4	7476.4	7424.4
5°	6998.2	6969.7	7010.6	7101.0	7212.5	7307.9	7449.2	7523.5	7531.0	7532.2	7471.5
7.5°	6495.1	6469.1	6529.8	6636.4	6780.1	6957.3	7203.8	7419.4	7431.8	7548.3	7503.7
10°	6086.2	6067.6	6138.3	6252.3	6420.8	6619.0	6921.3	7221.2	7257.1	7514.8	7498.7
12.5°	5761.6	5746.7	5813.6	5945.0	6117.2	6336.5	6652.5	7000.6	7049.0	7439.3	7474.0
15°	5524.9	5522.5	5578.2	5704.6	5895.4	6099.8	6423.2	6796.2	6852.0	7357.5	7470.2
17.5°	5401.0	5404.7	5445.6	5553.4	5717.0	5920.2	6229.9	6624.0	6684.7	7284.4	7488.8
20°	5388.6	5392.4	5414.7	5475.4	5607.9	5787.6	6072.6	6479.0	6542.2	7229.9	7518.6
22.5°	5497.7	5495.2	5501.4	5495.2	5569.5	5705.8	5968.5	6367.5	6440.6	7193.9	7542.1
25°	5707.1	5703.4	5700.9	5655.0	5605.5	5678.6	5925.1	6304.3	6373.7	7167.9	7555.7
27.5°	5998.2	5995.8	5992.1	5916.5	5767.8	5721.9	5930.1	6280.7	6339.0	7146.8	7553.3
30°	6381.1	6398.5	6393.5	6288.2	6056.5	5854.5	5982.1	6268.4	6319.2	7106.0	7527.2
32.5°	6830.9	6865.6	6892.8	6780.1	6490.1	6117.2	6102.3	6282.0	6319.2	7075.0	7480.2
35°	7298.0	7342.6	7443.0	7403.3	7021.7	6512.5	6309.2	6363.8	6394.7	7092.3	7457.8
37.5°	7757.7	7811.0	8029.1	8144.3	7718.0	7035.3	6631.4	6565.7	6581.8	7197.6	7482.6
40°	8291.7	8372.3	8703.1	8889.0	8549.5	7735.4	7113.4	6912.7	6918.9	7429.3	7597.9
42.5°	8993.0	9076.0	9434.1	9725.3	9486.2	8620.1	7767.6	7443.0	7436.8	7863.0	7869.2
45°	9848.0	9934.7	10305.2	10628.6	10520.8	9668.3	8605.2	8217.4	8210.0	8547.0	8383.4
47.5°	10816.9	10902.4	11233.2	11566.5	11683.0	10892.5	9672.0	9274.3	9257.0	9497.3	9177.7
50°	11648.3	11704.1	12008.9	12457.4	12982.8	12396.7	10999.1	10616.2	10597.6	10759.9	10343.6
52.5°	11950.6	11982.9	12292.6	12920.8	14231.7	14433.7	12742.4	12249.3	12235.6	12306.3	11896.1
55°	11338.6	11396.8	11777.2	12708.9	14908.3	16735.9	14943.0	14271.4	14168.5	14016.1	13519.3
57.5°	9670.8	9763.7	10172.6	11411.7	14592.3	18562.2	18176.9	16558.7	16407.5	15475.7	14838.9
60°	7246.0	7360.0	7699.5	9036.4	12906.0	19212.7	21710.7	19107.4	18766.7	16638.0	16051.9
62.5°	4972.3	5029.3	5259.8	6130.8	9504.8	18147.1	24667.0	22521.0	21899.0	17901.8	17364.1
65°	3797.7	3817.5	3911.7	4211.5	5660.0	14741.0	25842.9	27024.9	26272.8	19413.5	18725.8
67.5°	3060.5	3044.3	3174.4	3603.2	3790.3	8993.0	24471.3	31286.0	30934.1	21434.3	20096.2
69°	2698.7	2676.4	2808.9	3307.0	3559.8	5945.0	21876.7	32253.7	32276.0	22501.2	20190.3
70°	2428.5	2443.4	2574.7	3131.1	3481.7	4666.3	19398.6	32007.2	32183.1	22900.1	19625.3
72.5°	1621.9	1661.6	1925.5	2599.5	3347.9	3531.3	11712.7	27466.0	28142.6	22001.8	16837.5
75°	914.4	944.2	1257.6	1960.2	3154.6	3362.8	6186.6	20234.9	20889.2	18398.7	12984.0
77.5°	448.5	464.6	711.2	1265.1	2637.9	3204.2	3509.0	13744.8	14491.9	12008.9	7343.9
80°	189.6	198.2	355.6	780.6	1885.8	3058.0	2605.7	8459.0	8551.9	4704.7	1956.5
82.5°	73.1	75.6	149.9	486.9	1198.2	2383.9	2179.5	4010.8	3914.2	885.9	446.1
85°	8.7	9.9	54.5	292.4	666.6	1226.7	1770.6	1728.5	1599.6	175.9	229.2
87.5°	0.0	0.0	3.7	89.2	198.2	574.9	920.6	717.4	646.8	57.0	118.9
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°	7399.6	7399.6	7399.6	7399.6	7399.6	7399.6	7399.6	7399.6	7399.6	7399.6	7399.6
2.5°	7381.0	7368.6	7301.7	7205.1	7113.4	6999.4	6890.4	6824.7	6772.7	6738.0	6778.8
5°	7400.9	7346.3	7143.1	6882.9	6627.7	6340.2	6072.6	5845.8	5756.6	5657.5	5702.1
7.5°	7394.7	7291.8	6926.3	6462.9	5994.5	5510.1	5051.6	4698.5	4515.1	4335.4	4381.3
10°	7363.7	7190.2	6636.4	5949.9	5248.6	4552.3	3901.8	3407.4	3131.1	2880.8	2916.7
12.5°	7295.5	7053.9	6294.4	5362.6	4424.7	3506.5	2744.5	2111.3	1771.8	1621.9	1640.5
15°	7254.6	6921.3	5932.6	4767.9	3544.9	2442.2	1677.7	1247.7	1092.8	1043.3	1049.5
17.5°	7234.8	6793.7	5558.4	4087.6	2645.4	1555.0	1084.2	956.5	923.1	914.4	916.9
20°	7215.0	6664.9	5173.0	3414.8	1822.6	1045.8	890.9	853.7	841.3	830.2	832.6
22.5°	7181.5	6541.0	4759.2	2733.3	1229.1	848.7	802.9	767.0	741.0	727.3	729.8
25°	7140.7	6410.8	4336.7	2035.8	897.1	757.1	713.7	662.9	631.9	607.1	608.4
27.5°	7075.0	6251.0	3900.5	1481.9	753.3	677.8	619.5	563.8	511.7	483.2	483.2
30°	6983.3	6070.1	3416.1	1060.6	675.3	599.7	529.1	459.7	403.9	377.9	375.4
32.5°	6881.7	5881.8	2926.6	804.1	613.3	526.6	446.1	373.0	323.4	302.3	301.1
35°	6795.0	5678.6	2438.5	674.0	551.4	456.0	368.0	306.0	266.4	249.0	247.8
37.5°	6739.2	5475.4	1962.7	602.2	495.6	390.3	308.5	252.8	224.3	210.6	209.4
40°	6730.5	5324.2	1527.7	547.7	443.6	332.1	257.7	214.4	188.3	173.5	172.2
42.5°	6843.3	5237.5	1172.1	501.8	390.3	281.3	219.3	183.4	156.1	141.3	140.0
45°	7139.4	5264.7	902.0	460.9	337.0	237.9	185.9	152.4	127.6	116.5	114.0
47.5°	7679.6	5453.1	717.4	420.0	286.2	202.0	158.6	126.4	105.3	94.2	92.9
50°	8641.1	5895.4	599.7	375.4	239.1	172.2	131.3	102.8	85.5	75.6	74.3
52.5°	9917.4	6683.4	535.3	332.1	198.2	146.2	107.8	81.8	66.9	59.5	58.2
55°	11324.9	7637.5	493.1	285.0	162.3	121.4	85.5	64.4	52.0	45.8	43.4
57.5°	12699.0	8464.0	453.5	239.1	135.1	99.1	68.1	50.8	40.9	34.7	33.5
60°	13961.6	9223.5	407.6	192.1	110.3	78.1	53.3	39.6	32.2	26.0	26.0
62.5°	15313.4	9810.8	344.5	149.9	90.5	59.5	43.4	35.9	26.0	22.3	21.1
65°	16745.8	10247.0	270.1	116.5	70.6	44.6	35.9	37.2	21.1	16.1	14.9
67.5°	17803.9	10160.2	199.5	91.7	54.5	34.7	34.7	39.6	18.6	12.4	11.2
69°	17571.0	9455.2	167.3	79.3	47.1	29.7	32.2	39.6	17.3	11.2	9.9
70°	16895.7	8674.6	147.4	70.6	42.1	27.3	31.0	38.4	16.1	11.2	9.9
72.5°	14070.7	6533.5	115.2	53.3	33.5	22.3	26.0	33.5	16.1	11.2	8.7
75°	10584.0	4181.8	88.0	38.4	24.8	17.3	19.8	24.8	16.1	9.9	8.7
77.5°	5759.1	1507.9	63.2	26.0	17.3	13.6	13.6	18.6	14.9	7.4	5.0
80°	1480.7	379.1	39.6	17.3	13.6	9.9	8.7	12.4	8.7	1.2	0.0
82.5°	365.5	85.5	21.1	12.4	9.9	3.7	3.7	6.2	3.7	0.0	0.0
85°	200.7	42.1	13.6	8.7	5.0	0.0	0.0	1.2	0.0	0.0	0.0
87.5°	102.8	12.4	3.7	2.5	1.2	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)