

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: P323113

Luminaire Tested: **GAN-SA9A-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323113
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-SA9A-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 28858 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

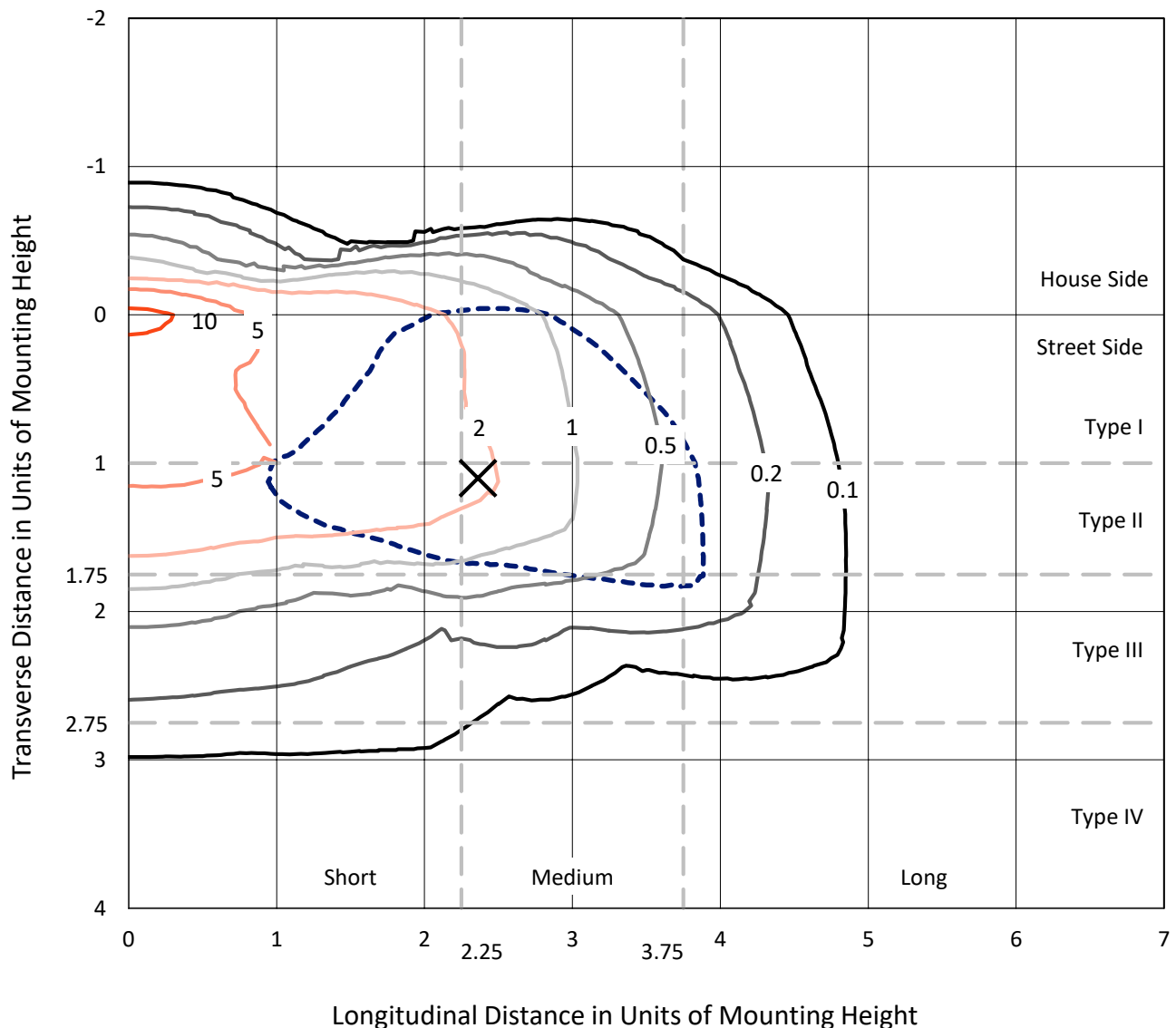
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

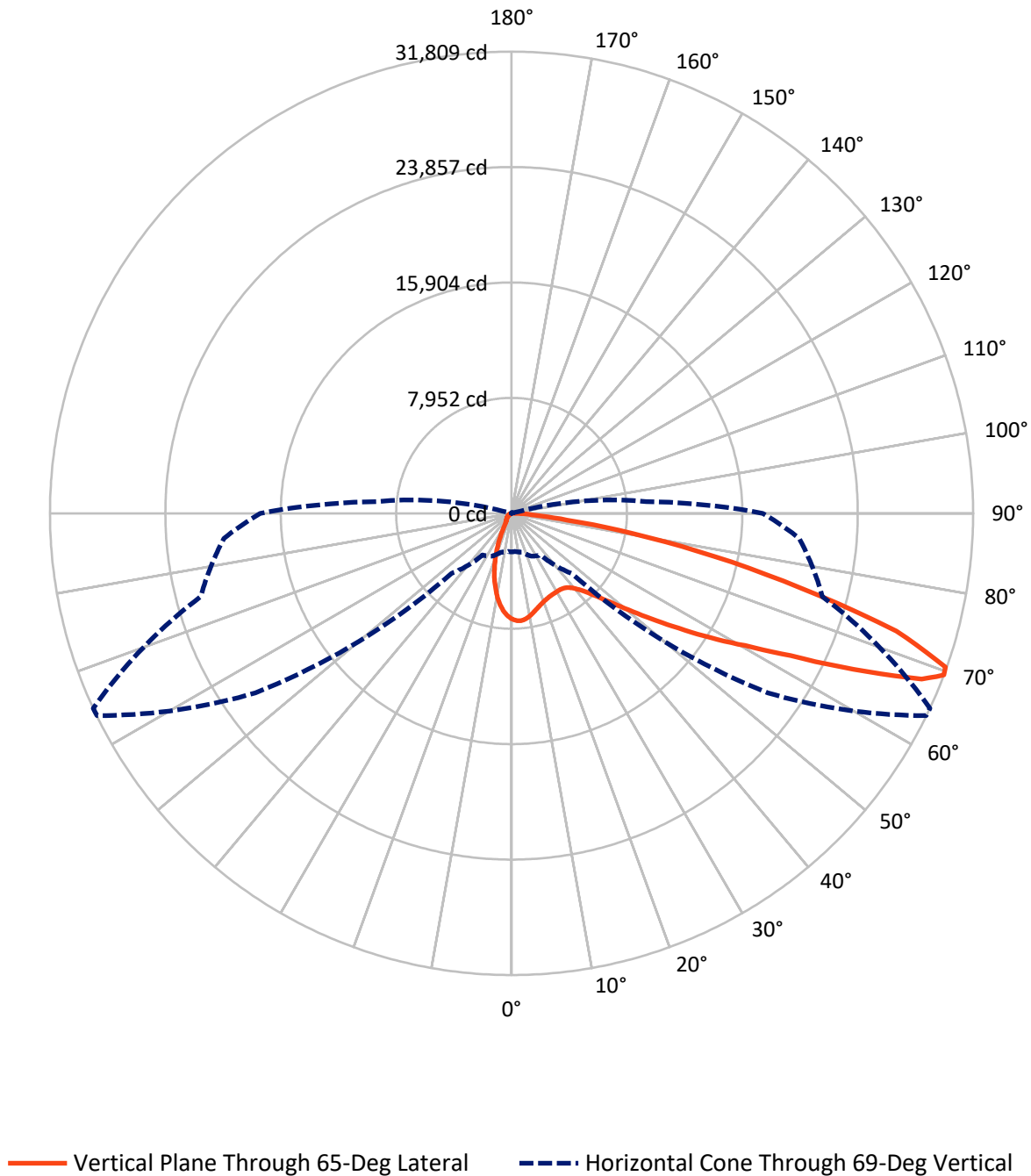
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3401.7	0.0	3401.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	25456.3	0.0	25456.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	28858.0	0.0	28858.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.8	2.1
10°-20°	1334.9	4.6
20°-30°	1848.9	6.4
30°-40°	2577.9	8.9
40°-50°	4006.9	13.9
50°-60°	6432.7	22.3
60°-70°	7276.4	25.2
70°-80°	4273.5	14.8
80°-90°	497.1	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°	28858.0	100.0
0°-180°	28858.0	100.0

Coefficient of Utilization



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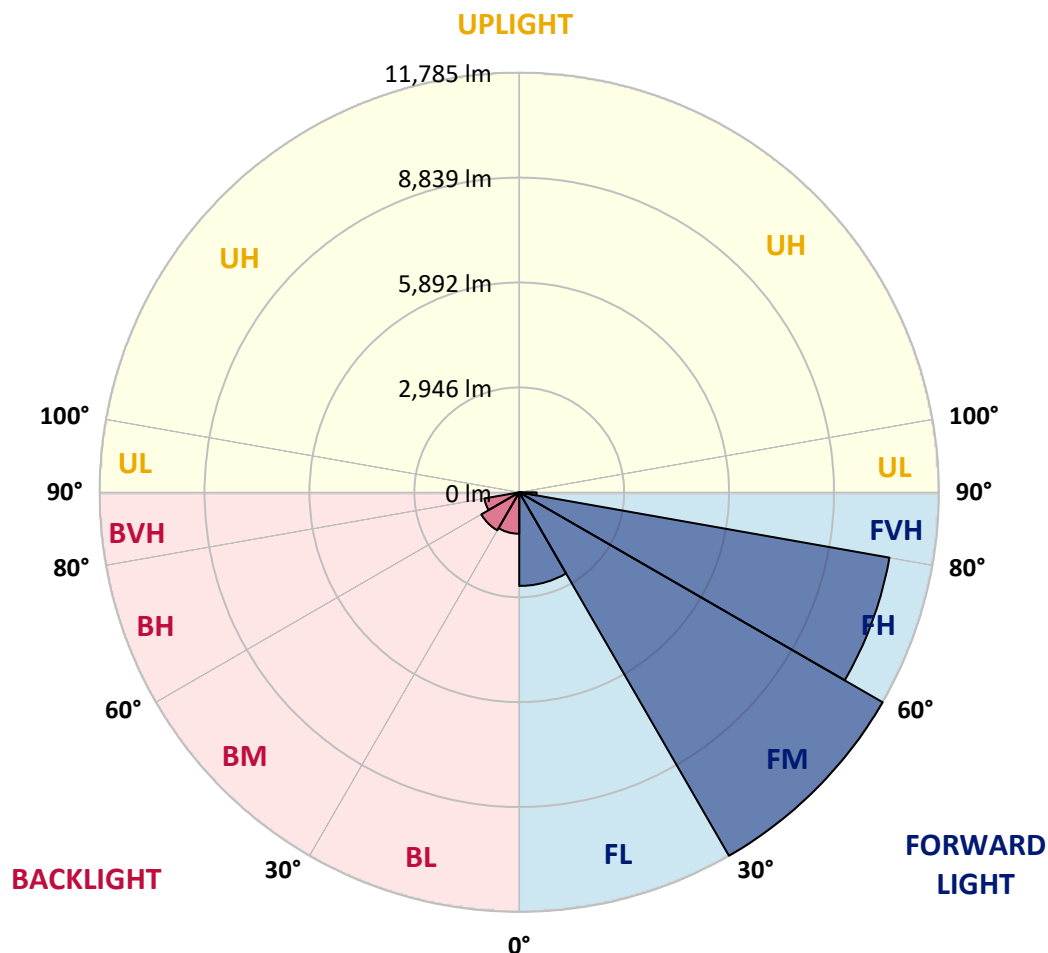
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2629.6	9.1			
FM	(30°-60°)	11784.8	40.8			
FH	(60°-80°)	10556.0	36.6			G4/12000
FVH	(80°-90°)	485.9	1.7			G3/500
BL	(0°-30°)	1163.9	4.0	B3/2500		
BM	(30°-60°)	1232.7	4.3	B2/2500		
BH	(60°-80°)	993.9	3.4	B2/1000		G2/1000
BVH	(80°-90°)	11.2	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°	7292.5	7292.5	7292.5	7292.5	7292.5	7292.5	7292.5	7292.5	7292.5	7292.5	7292.5
2.5°	7357.2	7338.9	7353.5	7385.3	7401.1	7401.1	7413.4	7398.7	7403.6	7368.2	7316.9
5°	6896.8	6868.7	6909.0	6998.2	7108.1	7202.1	7341.3	7414.6	7421.9	7423.1	7363.3
7.5°	6401.1	6375.4	6435.2	6540.3	6681.9	6856.5	7099.5	7312.0	7324.2	7439.0	7395.0
10°	5998.1	5979.8	6049.4	6161.7	6327.8	6523.2	6821.1	7116.6	7152.0	7406.0	7390.2
12.5°	5678.2	5663.5	5729.4	5858.9	6028.6	6244.8	6556.1	6899.3	6946.9	7331.5	7365.7
15°	5444.9	5442.5	5497.4	5622.0	5810.0	6011.5	6330.2	6697.8	6752.7	7250.9	7362.1
17.5°	5322.8	5326.5	5366.8	5473.0	5634.2	5834.5	6139.7	6528.1	6587.9	7178.9	7380.4
20°	5310.6	5314.3	5336.2	5396.1	5526.7	5703.8	5984.7	6385.2	6447.5	7125.2	7409.7
22.5°	5418.1	5415.6	5421.7	5415.6	5488.9	5623.2	5882.1	6275.3	6347.3	7089.8	7432.9
25°	5624.4	5620.8	5618.3	5573.1	5524.3	5596.3	5839.3	6213.0	6281.4	7064.1	7446.3
27.5°	5911.4	5908.9	5905.3	5830.8	5684.3	5639.1	5844.2	6189.8	6247.2	7043.4	7443.9
30°	6288.7	6305.8	6300.9	6197.1	5968.8	5769.7	5895.5	6177.6	6227.7	7003.1	7418.2
32.5°	6732.0	6766.2	6793.0	6681.9	6396.2	6028.6	6014.0	6191.0	6227.7	6972.5	7371.8
35°	7192.3	7236.3	7335.2	7296.1	6920.0	6418.2	6217.9	6271.6	6302.1	6989.6	7349.9
37.5°	7645.4	7697.9	7912.8	8026.4	7606.3	6933.5	6535.4	6470.7	6486.5	7093.4	7374.3
40°	8171.7	8251.0	8577.1	8760.2	8425.7	7623.4	7010.4	6812.6	6818.7	7321.8	7487.8
42.5°	8862.8	8944.6	9297.5	9584.5	9348.8	8495.3	7655.1	7335.2	7329.1	7749.2	7755.3
45°	9705.4	9790.9	10156.0	10474.7	10368.4	9528.3	8480.6	8098.4	8091.1	8423.2	8262.0
47.5°	10660.3	10744.5	11070.6	11399.1	11513.8	10734.8	9532.0	9140.0	9122.9	9359.8	9044.8
50°	11479.7	11534.6	11835.0	12277.0	12794.8	12217.2	10839.8	10462.5	10444.2	10604.1	10193.8
52.5°	11777.6	11809.4	12114.6	12733.7	14025.7	14224.7	12557.9	12071.9	12058.5	12128.1	11723.9
55°	11174.4	11231.8	11606.6	12524.9	14692.4	16493.5	14726.6	14064.7	13963.4	13813.2	13323.5
57.5°	9530.8	9622.3	10025.3	11246.4	14381.0	18293.4	17913.7	16318.9	16169.9	15251.7	14624.0
60°	7141.0	7253.4	7588.0	8905.6	12719.1	18934.5	21396.3	18830.7	18494.9	16397.1	15819.5
62.5°	4900.3	4956.5	5183.6	6042.1	9367.1	17884.4	24309.9	22194.9	21581.9	17642.6	17112.6
65°	3742.7	3762.2	3855.0	4150.6	5578.0	14527.5	25468.7	26633.6	25892.4	19132.3	18454.6
67.5°	3016.1	3000.3	3128.5	3551.0	3735.4	8862.8	24116.9	30833.0	30486.2	21124.0	19805.2
69°	2659.6	2637.6	2768.3	3259.1	3508.2	5858.9	21559.9	31786.7	31808.7	22175.4	19898.0
70°	2393.4	2408.0	2537.5	3085.7	3431.3	4598.7	19117.7	31543.7	31717.1	22568.5	19341.2
72.5°	1598.4	1637.5	1897.6	2561.9	3299.4	3480.2	11543.2	27068.3	27735.1	21683.2	16593.7
75°	901.2	930.5	1239.4	1931.8	3108.9	3314.1	6097.0	19941.9	20586.7	18132.3	12796.0
77.5°	442.0	457.9	700.9	1246.8	2599.7	3157.8	3458.2	13545.8	14282.1	11835.0	7237.5
80°	186.8	195.4	350.5	769.3	1858.5	3013.7	2568.0	8336.5	8428.1	4636.6	1928.1
82.5°	72.0	74.5	147.8	479.9	1180.8	2349.4	2147.9	3952.7	3857.5	873.1	439.6
85°	8.5	9.8	53.7	288.2	657.0	1208.9	1745.0	1703.4	1576.5	173.4	225.9
87.5°	0.0	0.0	3.7	87.9	195.4	566.6	907.3	707.0	637.4	56.2	117.2
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°	7292.5	7292.5	7292.5	7292.5	7292.5	7292.5	7292.5	7292.5	7292.5	7292.5	7292.5
2.5°	7274.2	7261.9	7196.0	7100.8	7010.4	6898.0	6790.6	6725.9	6674.6	6640.4	6680.7
5°	7293.7	7240.0	7039.7	6783.3	6531.7	6248.4	5984.7	5761.2	5673.3	5575.6	5619.5
7.5°	7287.6	7186.2	6826.0	6369.3	5907.7	5430.3	4978.5	4630.4	4449.7	4272.7	4317.8
10°	7257.1	7086.1	6540.3	5863.8	5172.6	4486.4	3845.3	3358.1	3085.7	2839.1	2874.5
12.5°	7189.9	6951.8	6203.2	5285.0	4360.6	3455.7	2704.8	2080.8	1746.2	1598.4	1616.7
15°	7149.6	6821.1	5846.7	4698.8	3493.6	2406.8	1653.4	1229.7	1077.0	1028.2	1034.3
17.5°	7130.1	6695.3	5477.9	4028.4	2607.1	1532.5	1068.5	942.7	909.7	901.2	903.6
20°	7110.5	6568.3	5098.1	3365.4	1796.3	1030.6	878.0	841.3	829.1	818.1	820.6
22.5°	7077.6	6446.2	4690.3	2693.8	1211.3	836.5	791.3	755.9	730.2	716.8	719.2
25°	7037.3	6318.0	4273.9	2006.3	884.1	746.1	703.4	653.3	622.8	598.3	599.6
27.5°	6972.5	6160.5	3844.1	1460.4	742.4	667.9	610.6	555.6	504.3	476.2	476.2
30°	6882.2	5982.2	3366.6	1045.3	665.5	591.0	521.4	453.0	398.1	372.4	370.0
32.5°	6782.0	5796.6	2884.3	792.5	604.4	519.0	439.6	367.6	318.7	298.0	296.7
35°	6696.6	5596.3	2403.1	664.3	543.4	449.4	362.7	301.6	262.5	245.4	244.2
37.5°	6641.6	5396.1	1934.2	593.5	488.4	384.6	304.1	249.1	221.0	207.6	206.4
40°	6633.1	5247.1	1505.6	539.7	437.2	327.3	254.0	211.3	185.6	171.0	169.7
42.5°	6744.2	5161.6	1155.2	494.5	384.6	277.2	216.1	180.7	153.9	139.2	138.0
45°	7036.0	5188.5	889.0	454.3	332.1	234.5	183.2	150.2	125.8	114.8	112.3
47.5°	7568.4	5374.1	707.0	414.0	282.1	199.0	156.3	124.6	103.8	92.8	91.6
50°	8516.0	5810.0	591.0	370.0	235.7	169.7	129.4	101.4	84.3	74.5	73.3
52.5°	9773.8	6586.7	527.5	327.3	195.4	144.1	106.2	80.6	65.9	58.6	57.4
55°	11160.9	7526.9	486.0	280.9	160.0	119.7	84.3	63.5	51.3	45.2	42.7
57.5°	12515.2	8341.4	446.9	235.7	133.1	97.7	67.2	50.1	40.3	34.2	33.0
60°	13759.5	9089.9	401.7	189.3	108.7	76.9	52.5	39.1	31.7	25.6	25.6
62.5°	15091.7	9668.7	339.5	147.8	89.1	58.6	42.7	35.4	25.6	22.0	20.8
65°	16503.3	10098.6	266.2	114.8	69.6	44.0	35.4	36.6	20.8	15.9	14.7
67.5°	17546.1	10013.1	196.6	90.4	53.7	34.2	34.2	39.1	18.3	12.2	11.0
69°	17316.6	9318.3	164.8	78.2	46.4	29.3	31.7	39.1	17.1	11.0	9.8
70°	16651.1	8549.0	145.3	69.6	41.5	26.9	30.5	37.9	15.9	11.0	9.8
72.5°	13866.9	6438.9	113.6	52.5	33.0	22.0	25.6	33.0	15.9	11.0	8.5
75°	10430.7	4121.2	86.7	37.9	24.4	17.1	19.5	24.4	15.9	9.8	8.5
77.5°	5675.7	1486.1	62.3	25.6	17.1	13.4	13.4	18.3	14.7	7.3	4.9
80°	1459.2	373.7	39.1	17.1	13.4	9.8	8.5	12.2	8.5	1.2	0.0
82.5°	360.2	84.3	20.8	12.2	9.8	3.7	3.7	6.1	3.7	0.0	0.0
85°	197.8	41.5	13.4	8.5	4.9	0.0	0.0	1.2	0.0	0.0	0.0
87.5°	101.4	12.2	3.7	2.4	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)