

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: P321840

Luminaire Tested: **GAN-SA6B-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321840
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-SA6B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 20334 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 249
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



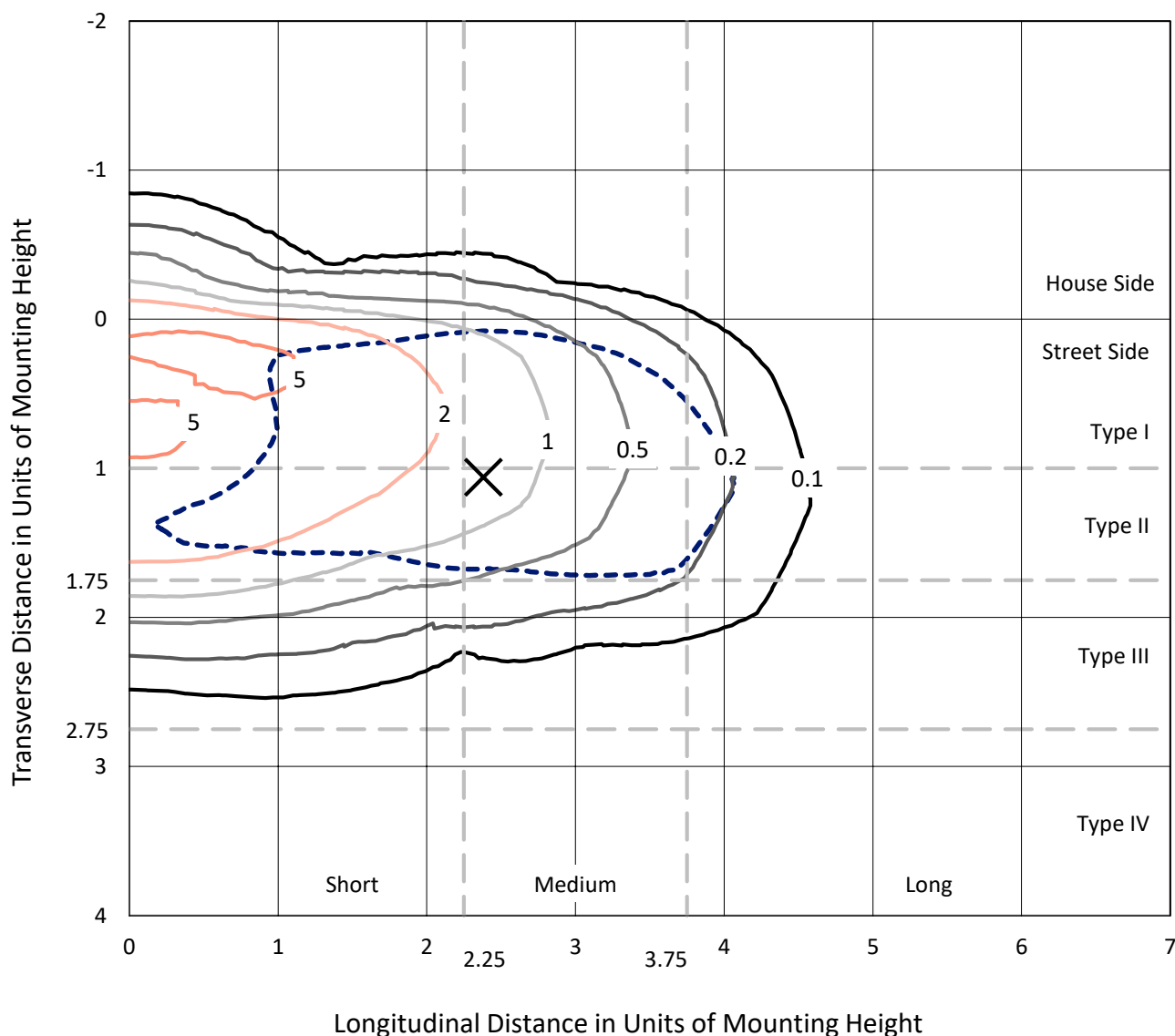
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

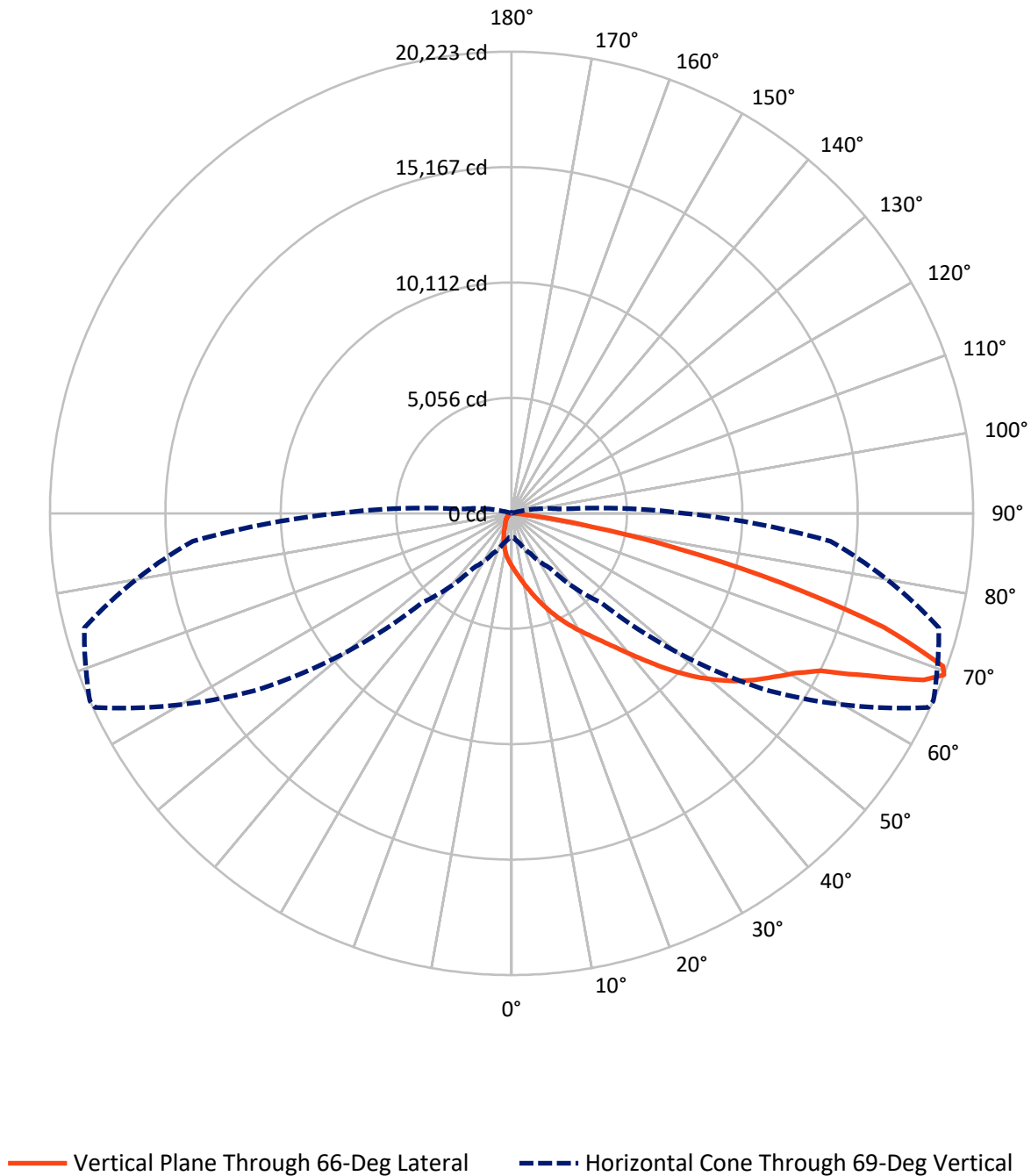
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	1219.8	0.0	1219.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	19114.2	0.0	19114.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	20334.0	0.0	20334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.7	1.1
10°-20°	665.7	3.3
20°-30°	1159.3	5.7
30°-40°	2034.0	10.0
40°-50°	3404.5	16.7
50°-60°	5004.3	24.6
60°-70°	5138.2	25.3
70°-80°	2536.6	12.5
80°-90°	167.7	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°	20334.0	100.0
0°-180°	20334.0	100.0

Coefficient of Utilization



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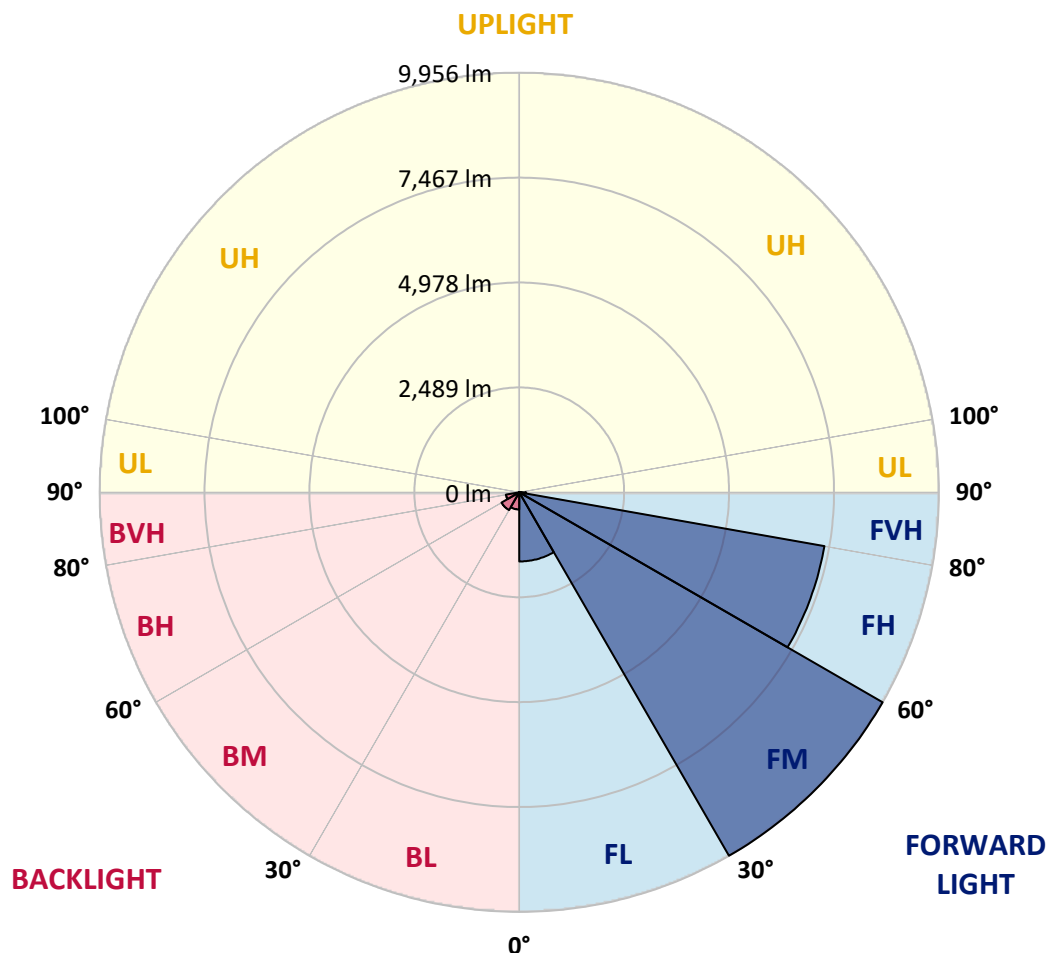
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1640.8	8.1			
FM	(30°-60°)	9956.5	49.0			
FH	(60°-80°)	7353.3	36.2			G3/7500
FVH	(80°-90°)	163.7	0.8			G2/225
BL	(0°-30°)	407.9	2.0	B1/500		
BM	(30°-60°)	486.3	2.4	B1/1000		
BH	(60°-80°)	321.4	1.6	B1/500		G1/500
BVH	(80°-90°)	4.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1
2.5°	2723.6	2712.0	2707.2	2685.9	2649.2	2621.2	2567.1	2504.3	2492.7	2431.9	2357.5
5°	3077.1	3067.4	3060.6	3030.7	2993.0	2922.5	2824.0	2707.2	2684.9	2569.0	2420.3
7.5°	3323.3	3340.7	3340.7	3321.4	3274.1	3221.0	3100.2	2940.9	2912.9	2735.2	2504.3
10°	3467.2	3488.5	3504.9	3521.3	3514.6	3493.3	3379.4	3199.7	3165.9	2930.3	2601.9
12.5°	3480.8	3502.0	3548.4	3616.9	3683.6	3731.9	3660.4	3486.6	3447.9	3156.3	2717.8
15°	3405.4	3427.7	3499.1	3632.4	3793.7	3934.7	3957.9	3804.3	3764.7	3425.7	2862.7
17.5°	3274.1	3288.6	3390.9	3575.4	3828.5	4087.3	4227.3	4145.2	4108.5	3733.8	3023.9
20°	3176.5	3187.2	3277.0	3475.0	3807.2	4182.9	4482.3	4507.4	4468.8	4064.1	3198.8
22.5°	3343.6	3362.9	3365.8	3459.5	3749.3	4230.2	4706.4	4863.8	4834.8	4414.7	3370.7
25°	3800.5	3822.7	3749.3	3691.3	3798.5	4251.5	4898.6	5228.9	5205.7	4792.3	3543.5
27.5°	4404.1	4427.3	4332.6	4159.7	4056.4	4331.6	5069.5	5599.8	5598.8	5192.2	3729.9
30°	4997.1	5020.3	4923.7	4750.8	4513.2	4558.6	5217.3	5988.0	5993.8	5604.6	3927.9
32.5°	5619.1	5648.0	5548.6	5326.4	5078.2	4950.7	5424.9	6378.2	6411.0	6082.7	4151.0
35°	6326.0	6329.9	6189.9	5957.1	5671.2	5475.2	5758.1	6815.7	6893.9	6674.7	4434.0
37.5°	7019.5	7047.5	6932.6	6565.6	6302.9	6080.7	6253.6	7362.3	7473.4	7398.1	4803.9
40°	7533.3	7592.2	7575.8	7179.8	6930.6	6772.2	6868.8	8012.3	8153.3	8240.3	5270.4
42.5°	7855.9	7900.3	7975.6	7737.1	7511.1	7537.2	7595.1	8769.5	8943.4	9200.3	5806.4
45°	8225.8	8247.0	8309.8	8204.5	8051.9	8314.6	8365.8	9622.3	9804.9	10232.7	6401.4
47.5°	8677.8	8728.0	8745.4	8648.8	8579.3	9002.3	9108.5	10397.9	10653.8	11338.6	7031.1
50°	9253.4	9266.9	9296.9	9234.1	9164.5	9593.4	9774.9	11212.1	11444.8	12448.3	7652.1
52.5°	9816.5	9864.8	9969.1	9929.5	9901.5	10096.6	10368.9	11946.1	12205.9	13373.5	8272.1
55°	9978.7	10020.3	10380.5	10626.8	10854.7	10716.6	10936.8	12603.8	12884.8	14200.3	8869.0
57.5°	9330.7	9414.7	10038.6	10679.9	11625.4	11680.5	11717.2	13278.9	13531.0	14833.8	9490.0
60°	7692.7	7709.1	8732.8	9832.9	11497.9	12521.7	12856.8	14004.2	14215.7	15423.9	10233.7
62.5°	4892.8	5059.9	6183.1	7736.1	10149.7	12400.0	14235.0	15101.4	15178.6	16131.9	11299.9
65°	2330.5	2438.7	3248.0	4779.8	7351.7	10842.2	15186.4	17086.1	17120.9	17535.2	12724.5
67.5°	1290.3	1342.5	1727.8	2572.9	4297.8	7667.5	14802.0	19436.9	19469.7	18968.5	13974.3
69°	1009.3	1053.7	1357.0	1939.3	2913.8	5510.9	13394.8	20125.5	20223.0	19378.9	14018.7
70°	856.7	900.1	1168.6	1638.0	2343.0	4258.2	11922.9	19954.5	20057.9	19340.3	13687.4
72.5°	524.4	549.5	778.4	1153.2	1570.4	2142.2	7352.7	16875.6	17050.4	17740.9	11763.5
75°	353.5	367.0	486.8	795.8	1123.2	1103.0	3819.8	11894.9	12273.5	13800.4	8688.4
77.5°	253.0	265.6	326.4	514.8	787.1	728.2	1729.8	7392.3	7473.4	8277.0	4738.3
80°	143.9	155.5	230.8	306.2	534.1	485.8	687.7	3531.0	3571.6	3549.3	1582.0
82.5°	75.3	85.0	126.5	201.9	342.9	317.8	285.9	1182.1	1187.9	988.0	346.7
85°	14.5	17.4	62.8	138.1	176.7	138.1	116.9	277.2	283.0	250.1	86.0
87.5°	0.0	1.0	25.1	30.9	34.8	35.7	37.7	54.1	57.9	78.2	23.2
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°	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1
2.5°	2324.7	2289.9	2223.3	2146.0	2086.1	2027.2	1980.9	1932.6	1915.2	1906.5	1905.5
5°	2347.9	2274.5	2133.5	1988.6	1869.8	1757.8	1677.6	1601.3	1565.6	1549.2	1542.4
7.5°	2386.5	2268.7	2041.7	1820.5	1649.6	1509.6	1398.5	1315.4	1273.9	1256.5	1249.8
10°	2431.9	2261.0	1934.5	1642.8	1424.6	1279.7	1169.6	1087.5	1042.1	1022.8	1013.1
12.5°	2485.0	2247.4	1810.9	1463.2	1232.4	1087.5	954.2	852.8	800.7	778.4	767.8
15°	2550.7	2233.9	1681.5	1294.2	1063.4	886.6	740.8	672.2	661.6	657.7	658.7
17.5°	2615.4	2212.7	1540.5	1127.1	885.6	692.5	618.1	614.3	616.2	616.2	616.2
20°	2673.4	2164.4	1386.9	984.2	716.6	584.3	568.9	562.1	557.3	553.4	548.6
22.5°	2718.7	2099.7	1239.1	842.2	585.3	535.1	510.9	489.7	472.3	460.7	454.9
25°	2749.7	2013.7	1103.9	706.0	526.4	486.8	443.3	407.6	380.5	364.1	357.3
27.5°	2772.8	1921.0	983.2	591.1	485.8	430.8	373.8	331.3	303.3	288.8	283.0
30°	2789.3	1815.7	877.0	519.6	440.4	371.8	311.0	269.5	249.2	241.5	237.6
32.5°	2804.7	1698.9	776.5	485.8	397.9	317.8	260.8	228.9	216.3	206.7	203.8
35°	2843.3	1590.7	680.9	450.1	354.5	271.4	224.1	200.9	188.3	182.5	180.6
37.5°	2935.1	1510.5	589.1	413.4	311.0	234.7	196.1	179.6	168.1	162.3	160.3
40°	3082.9	1470.0	511.9	373.8	268.5	206.7	177.7	162.3	149.7	141.0	139.1
42.5°	3300.2	1475.8	457.8	334.2	234.7	184.5	160.3	142.0	128.5	120.7	118.8
45°	3563.8	1518.2	420.1	295.5	206.7	167.1	141.0	121.7	109.1	102.4	100.4
47.5°	3849.7	1586.8	389.2	260.8	184.5	150.7	121.7	101.4	90.8	85.0	84.0
50°	4151.0	1653.5	357.3	227.0	165.2	134.2	102.4	84.0	75.3	70.5	68.6
52.5°	4456.2	1730.7	328.4	196.1	148.7	114.9	85.0	68.6	61.8	57.9	56.0
55°	4784.6	1788.7	300.4	171.9	132.3	97.5	70.5	57.0	51.2	46.4	45.4
57.5°	5170.9	1878.5	271.4	148.7	113.0	81.1	57.9	45.4	40.6	35.7	34.8
60°	5692.5	1983.8	240.5	131.3	92.7	66.6	47.3	36.7	30.9	27.0	26.1
62.5°	6380.1	2100.6	201.9	114.9	75.3	54.1	37.7	29.0	22.2	17.4	17.4
65°	7252.2	2290.9	165.2	96.6	61.8	44.4	29.0	21.2	12.6	7.7	7.7
67.5°	7761.2	2323.7	133.3	79.2	50.2	37.7	24.1	14.5	3.9	1.0	0.0
69°	7598.0	2133.5	113.0	67.6	43.5	35.7	22.2	10.6	1.9	0.0	0.0
70°	7290.9	1950.9	99.5	59.9	39.6	33.8	21.2	7.7	1.9	0.0	0.0
72.5°	6024.7	1388.8	75.3	44.4	29.0	29.9	19.3	4.8	1.9	0.0	0.0
75°	4388.6	844.1	54.1	30.9	18.4	22.2	13.5	1.9	1.0	0.0	0.0
77.5°	2441.6	397.9	33.8	17.4	11.6	13.5	6.8	0.0	0.0	0.0	0.0
80°	792.9	108.2	15.5	9.7	6.8	7.7	2.9	0.0	0.0	0.0	0.0
82.5°	146.8	30.9	8.7	4.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0
85°	31.9	12.6	4.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	3.9	1.0	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)