

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: P321830

Luminaire Tested: **GAN-SA6A-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321830
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-SA6A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA 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: 16583 lumens
Efficiency: N/A
Efficacy: 85.9 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): 193
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

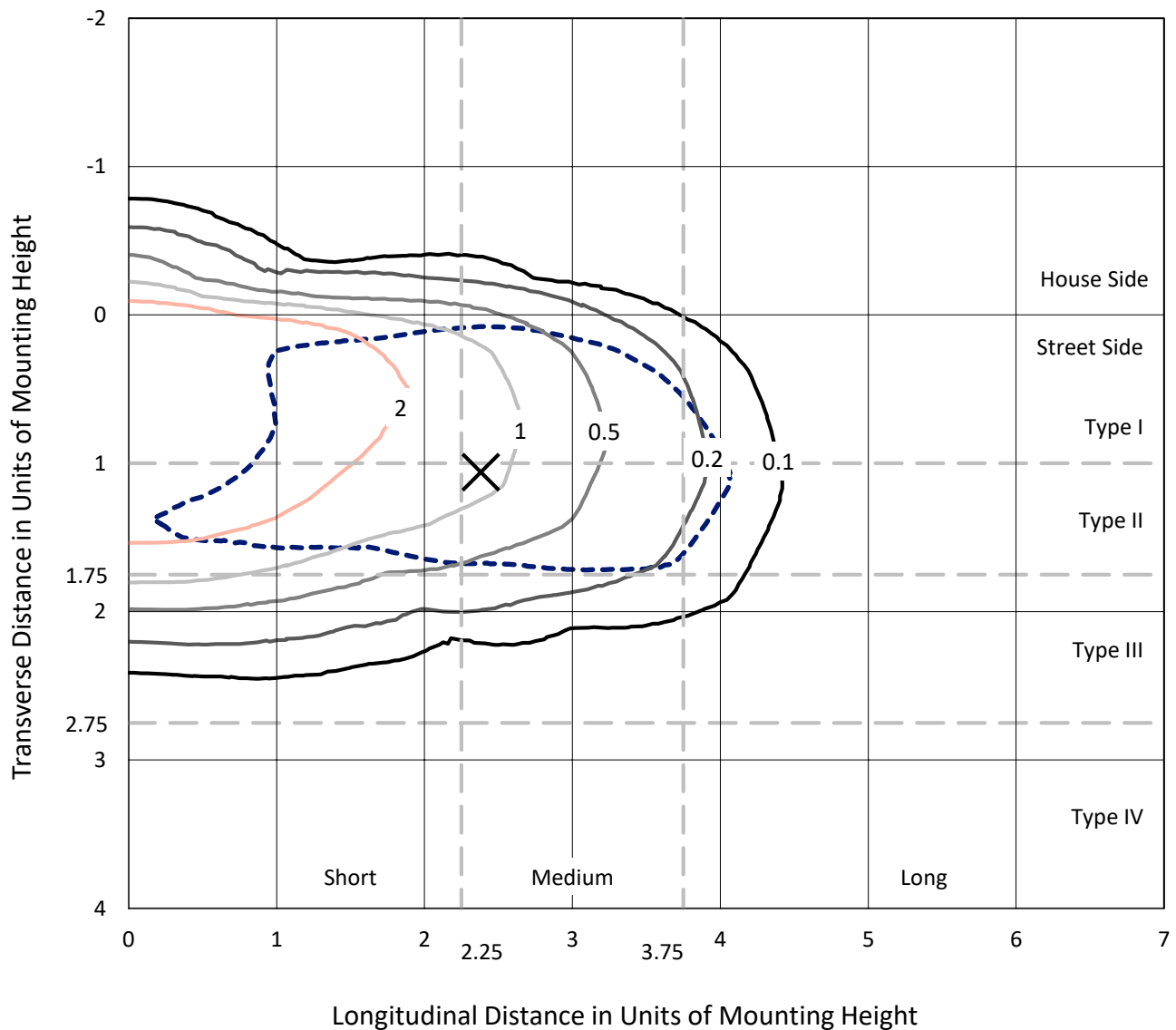


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Iso-Footcandle Lines of Horizontal Illumination

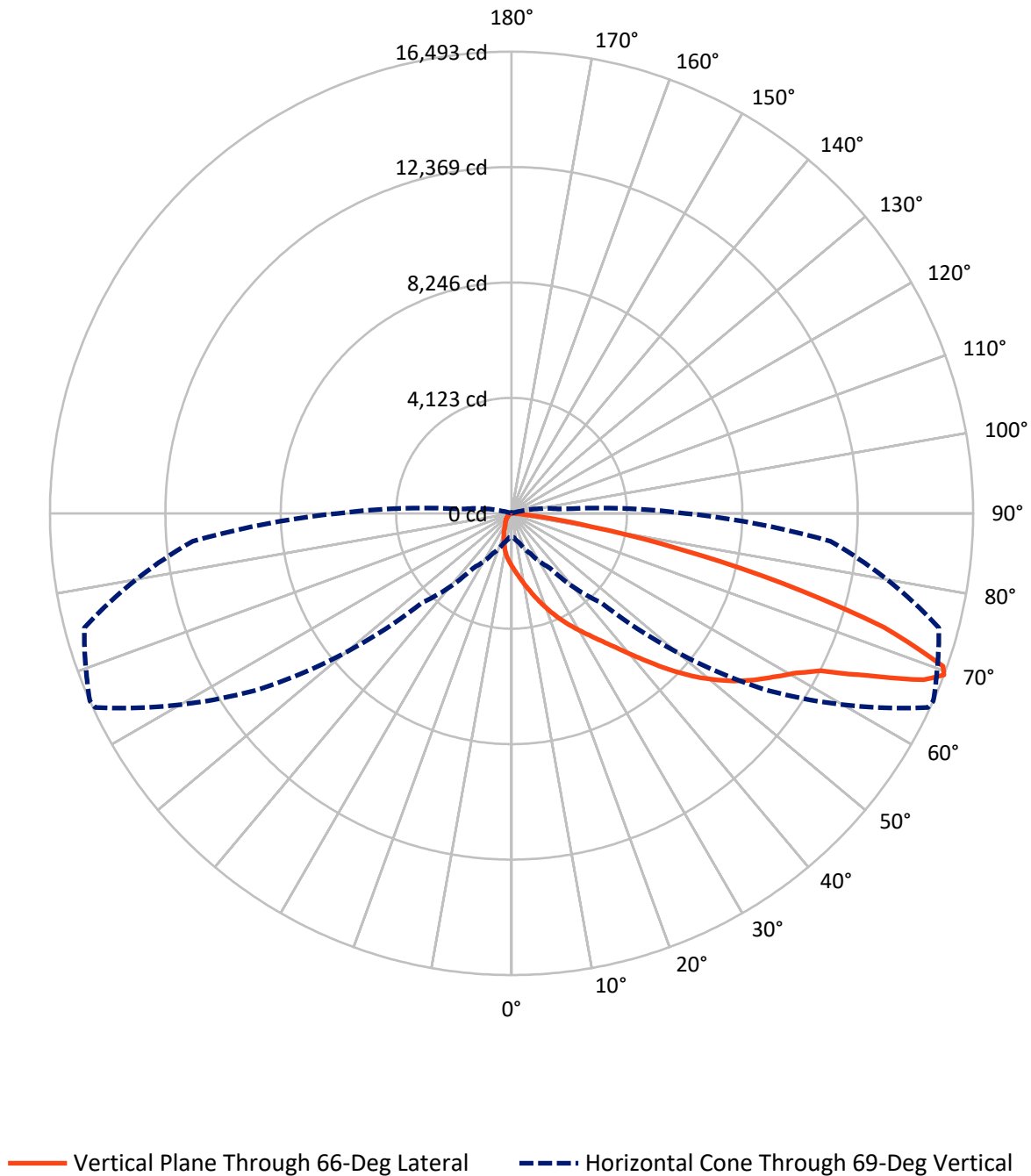
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	994.7	0.0	994.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	15588.2	0.0	15588.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	16583.0	0.0	16583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.4	1.1
10°-20°	542.9	3.3
20°-30°	945.4	5.7
30°-40°	1658.8	10.0
40°-50°	2776.5	16.7
50°-60°	4081.2	24.6
60°-70°	4190.3	25.3
70°-80°	2068.7	12.5
80°-90°	136.8	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°	16583.0	100.0
0°-180°	16583.0	100.0

Coefficient of Utilization



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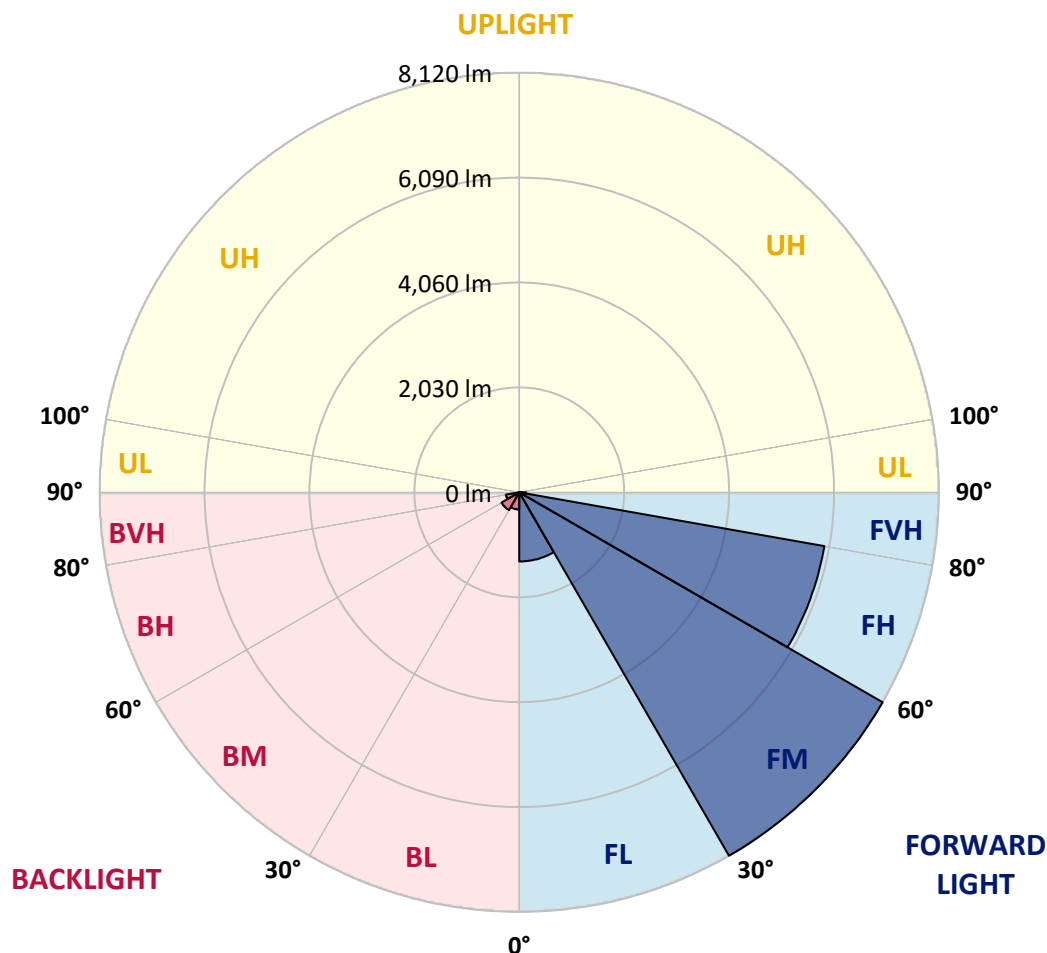
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1338.1	8.1			
FM	(30°-60°)	8119.8	49.0			
FH	(60°-80°)	5996.9	36.2			G3/7500
FVH	(80°-90°)	133.5	0.8			G2/225
BL	(0°-30°)	332.7	2.0	B1/500		
BM	(30°-60°)	396.6	2.4	B1/1000		
BH	(60°-80°)	262.1	1.6	B1/500		G1/500
BVH	(80°-90°)	3.3	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°	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2
2.5°	2221.2	2211.7	2207.8	2190.4	2160.5	2137.7	2093.6	2042.4	2032.9	1983.3	1922.6
5°	2509.4	2501.6	2496.0	2471.6	2440.9	2383.4	2303.1	2207.8	2189.7	2095.1	1973.8
7.5°	2710.3	2724.5	2724.5	2708.7	2670.1	2626.8	2528.3	2398.4	2375.5	2230.6	2042.4
10°	2827.6	2845.0	2858.4	2871.8	2866.2	2848.9	2756.0	2609.5	2581.9	2389.7	2121.9
12.5°	2838.7	2856.0	2893.8	2949.7	3004.1	3043.5	2985.2	2843.4	2811.9	2574.0	2216.4
15°	2777.2	2795.4	2853.6	2962.3	3093.9	3208.9	3227.8	3102.5	3070.2	2793.8	2334.6
17.5°	2670.1	2681.9	2765.4	2915.9	3122.2	3333.3	3447.5	3380.6	3350.6	3045.0	2466.1
20°	2590.6	2599.2	2672.5	2833.9	3104.9	3411.3	3655.5	3675.9	3644.4	3314.4	2608.7
22.5°	2726.8	2742.6	2744.9	2821.3	3057.6	3449.9	3838.2	3966.6	3943.0	3600.3	2748.9
25°	3099.4	3117.5	3057.6	3010.4	3097.8	3467.2	3994.9	4264.3	4245.4	3908.3	2889.9
27.5°	3591.7	3610.6	3533.4	3392.4	3308.1	3532.6	4134.4	4566.8	4566.0	4234.4	3041.9
30°	4075.3	4094.2	4015.4	3874.4	3680.7	3717.7	4254.9	4883.4	4888.1	4570.7	3203.4
32.5°	4582.5	4606.2	4525.0	4343.9	4141.4	4037.5	4424.2	5201.6	5228.4	4960.6	3385.3
35°	5159.1	5162.2	5048.0	4858.2	4625.1	4465.2	4695.9	5558.4	5622.2	5443.4	3616.1
37.5°	5724.6	5747.4	5653.7	5354.4	5140.2	4959.0	5100.0	6004.2	6094.8	6033.4	3917.7
40°	6143.6	6191.7	6178.3	5855.4	5652.1	5523.0	5601.7	6534.3	6649.3	6720.2	4298.2
42.5°	6406.7	6442.9	6504.4	6309.8	6125.5	6146.8	6194.0	7151.8	7293.6	7503.1	4735.3
45°	6708.4	6725.7	6776.9	6691.0	6566.6	6780.8	6822.6	7847.3	7996.2	8345.1	5220.5
47.5°	7077.0	7118.0	7132.1	7053.4	6996.7	7341.6	7428.3	8479.8	8688.5	9247.0	5734.1
50°	7546.4	7557.5	7581.9	7530.7	7474.0	7823.7	7971.8	9143.8	9333.6	10152.0	6240.5
52.5°	8005.6	8045.0	8130.1	8097.8	8074.9	8234.0	8456.2	9742.4	9954.3	10906.5	6746.2
55°	8138.0	8171.8	8465.6	8666.5	8852.3	8739.7	8919.3	10278.8	10508.0	11580.8	7232.9
57.5°	7609.4	7678.0	8186.8	8709.8	9480.9	9525.8	9555.7	10829.3	11034.9	12097.4	7739.4
60°	6273.6	6287.0	7121.9	8019.0	9376.9	10211.8	10485.1	11420.9	11593.4	12578.7	8345.9
62.5°	3990.2	4126.5	5042.5	6309.0	8277.4	10112.6	11609.1	12315.6	12378.6	13156.0	9215.5
65°	1900.6	1988.8	2648.9	3898.1	5995.6	8842.1	12384.9	13934.2	13962.6	14300.5	10377.2
67.5°	1052.3	1094.8	1409.1	2098.3	3505.0	6253.1	12071.5	15851.4	15878.1	15469.4	11396.4
69°	823.1	859.3	1106.6	1581.6	2376.3	4494.3	10923.9	16413.0	16492.5	15804.1	11432.7
70°	698.6	734.1	953.1	1335.8	1910.8	3472.7	9723.5	16273.5	16357.8	15772.6	11162.5
72.5°	427.7	448.2	634.8	940.4	1280.7	1747.0	5996.3	13762.5	13905.1	14468.3	9593.5
75°	288.3	299.3	397.0	649.0	916.0	899.5	3115.1	9700.6	10009.4	11254.7	7085.7
77.5°	206.4	216.6	266.2	419.8	641.9	593.9	1410.7	6028.6	6094.8	6750.1	3864.2
80°	117.4	126.8	188.2	249.7	435.6	396.2	560.8	2879.6	2912.7	2894.6	1290.2
82.5°	61.4	69.3	103.2	164.6	279.6	259.1	233.1	964.1	968.8	805.8	282.8
85°	11.8	14.2	51.2	112.6	144.1	112.6	95.3	226.1	230.8	204.0	70.1
87.5°	0.0	0.8	20.5	25.2	28.4	29.1	30.7	44.1	47.3	63.8	18.9
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°	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2
2.5°	1895.9	1867.5	1813.2	1750.1	1701.3	1653.3	1615.5	1576.1	1561.9	1554.8	1554.0
5°	1914.8	1854.9	1739.9	1621.8	1524.9	1433.5	1368.1	1305.9	1276.8	1263.4	1257.9
7.5°	1946.3	1850.2	1665.1	1484.7	1345.3	1231.1	1140.5	1072.8	1038.9	1024.7	1019.2
10°	1983.3	1843.9	1577.7	1339.8	1161.8	1043.6	953.8	886.9	849.9	834.1	826.2
12.5°	2026.6	1832.9	1476.8	1193.3	1005.0	886.9	778.2	695.5	653.0	634.8	626.2
15°	2080.2	1821.8	1371.3	1055.4	867.2	723.1	604.1	548.2	539.5	536.4	537.2
17.5°	2132.9	1804.5	1256.3	919.2	722.3	564.7	504.1	500.9	502.5	502.5	502.5
20°	2180.2	1765.1	1131.1	802.6	584.4	476.5	463.9	458.4	454.5	451.3	447.4
22.5°	2217.2	1712.3	1010.5	686.8	477.3	436.4	416.7	399.3	385.2	375.7	371.0
25°	2242.4	1642.2	900.3	575.8	429.3	397.0	361.5	332.4	310.3	296.9	291.4
27.5°	2261.3	1566.6	801.8	482.0	396.2	351.3	304.8	270.2	247.3	235.5	230.8
30°	2274.7	1480.8	715.2	423.8	359.2	303.2	253.6	219.8	203.2	196.9	193.8
32.5°	2287.3	1385.5	633.3	396.2	324.5	259.1	212.7	186.7	176.4	168.6	166.2
35°	2318.8	1297.3	555.3	367.0	289.1	221.3	182.7	163.8	153.6	148.9	147.3
37.5°	2393.7	1231.9	480.5	337.1	253.6	191.4	159.9	146.5	137.1	132.3	130.7
40°	2514.2	1198.8	417.5	304.8	219.0	168.6	144.9	132.3	122.1	115.0	113.4
42.5°	2691.4	1203.5	373.3	272.5	191.4	150.4	130.7	115.8	104.8	98.5	96.9
45°	2906.4	1238.2	342.6	241.0	168.6	136.3	115.0	99.2	89.0	83.5	81.9
47.5°	3139.6	1294.1	317.4	212.7	150.4	122.9	99.2	82.7	74.0	69.3	68.5
50°	3385.3	1348.4	291.4	185.1	134.7	109.5	83.5	68.5	61.4	57.5	55.9
52.5°	3634.2	1411.5	267.8	159.9	121.3	93.7	69.3	55.9	50.4	47.3	45.7
55°	3902.0	1458.7	245.0	140.2	107.9	79.6	57.5	46.5	41.7	37.8	37.0
57.5°	4217.1	1532.0	221.3	121.3	92.2	66.2	47.3	37.0	33.1	29.1	28.4
60°	4642.4	1617.8	196.1	107.1	75.6	54.3	38.6	29.9	25.2	22.1	21.3
62.5°	5203.2	1713.1	164.6	93.7	61.4	44.1	30.7	23.6	18.1	14.2	14.2
65°	5914.4	1868.3	134.7	78.8	50.4	36.2	23.6	17.3	10.2	6.3	6.3
67.5°	6329.5	1895.1	108.7	64.6	41.0	30.7	19.7	11.8	3.2	0.8	0.0
69°	6196.4	1739.9	92.2	55.1	35.4	29.1	18.1	8.7	1.6	0.0	0.0
70°	5945.9	1591.0	81.1	48.8	32.3	27.6	17.3	6.3	1.6	0.0	0.0
72.5°	4913.3	1132.6	61.4	36.2	23.6	24.4	15.8	3.9	1.6	0.0	0.0
75°	3579.1	688.4	44.1	25.2	15.0	18.1	11.0	1.6	0.8	0.0	0.0
77.5°	1991.2	324.5	27.6	14.2	9.5	11.0	5.5	0.0	0.0	0.0	0.0
80°	646.7	88.2	12.6	7.9	5.5	6.3	2.4	0.0	0.0	0.0	0.0
82.5°	119.7	25.2	7.1	3.9	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	26.0	10.2	3.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	3.2	0.8	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)