

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: P321200

Luminaire Tested: **GAN-SA6B-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6B-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23071 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

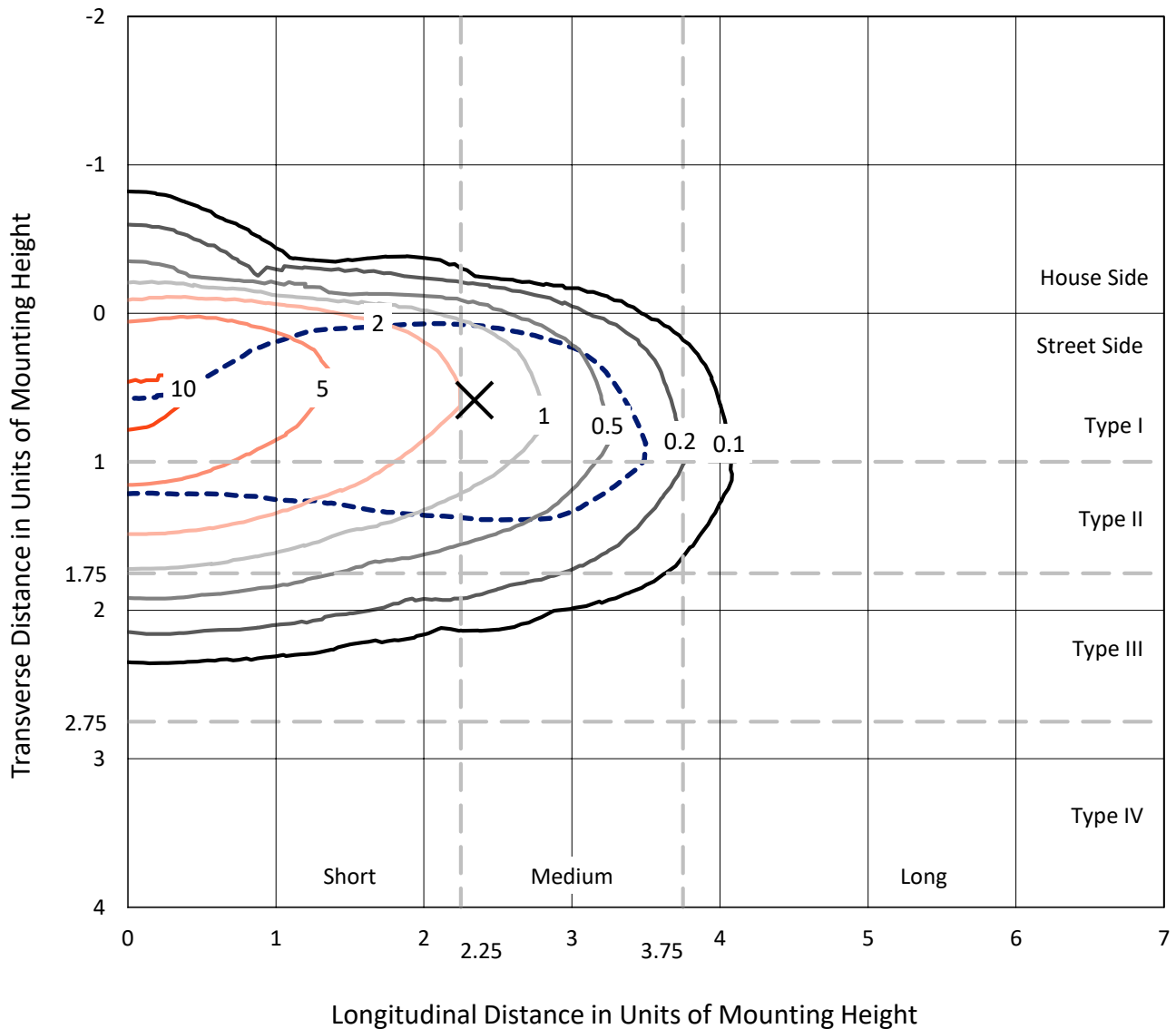
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

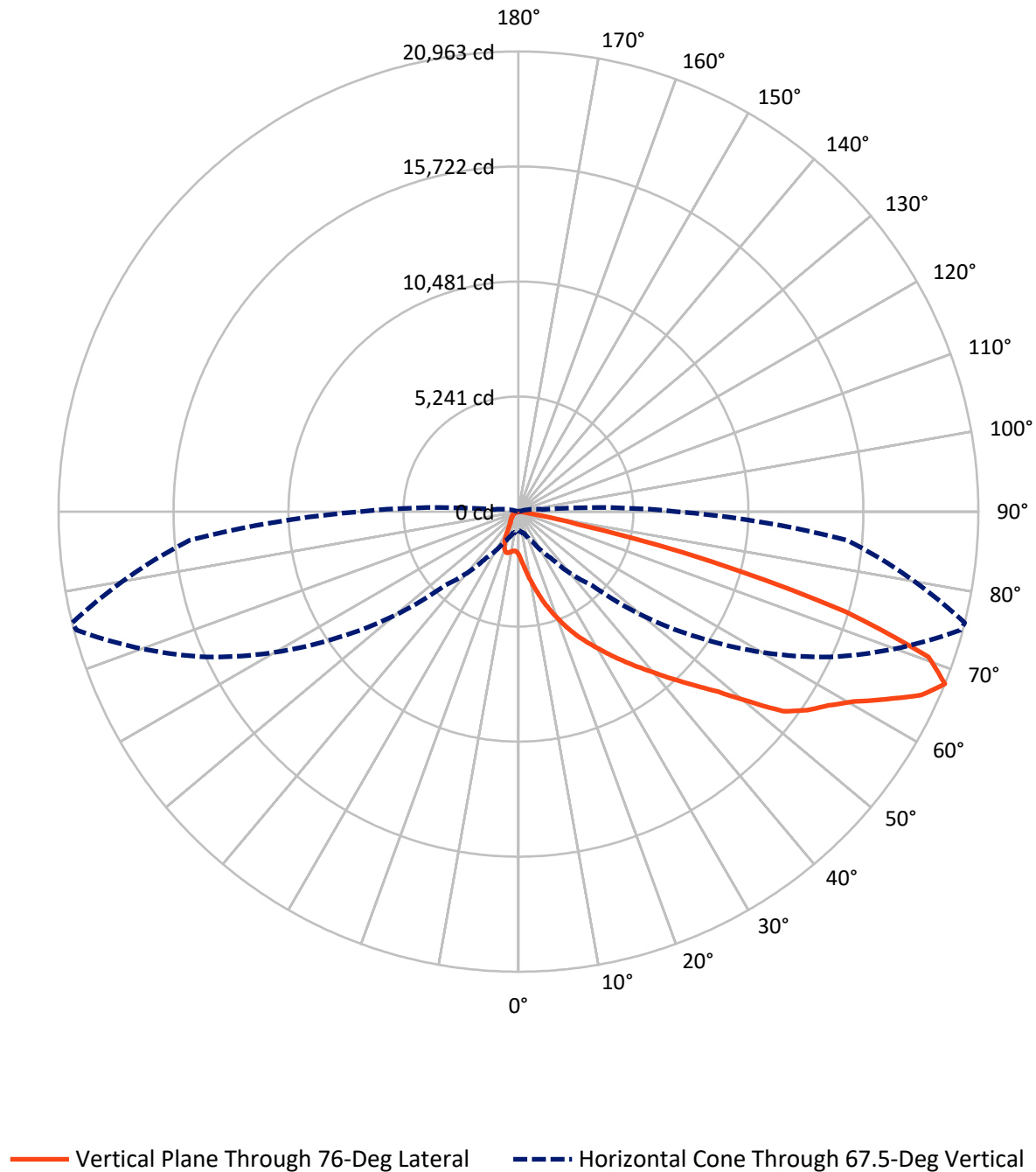
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	1145.6	0.0	1145.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	21925.4	0.0	21925.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	23071.0	0.0	23071.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.4	1.1
10°-20°	964.7	4.2
20°-30°	1962.9	8.5
30°-40°	3406.9	14.8
40°-50°	4813.6	20.9
50°-60°	5458.8	23.7
60°-70°	4527.6	19.6
70°-80°	1640.0	7.1
80°-90°	53.2	0.2
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°	23071.0	100.0
0°-180°	23071.0	100.0

Coefficient of Utilization



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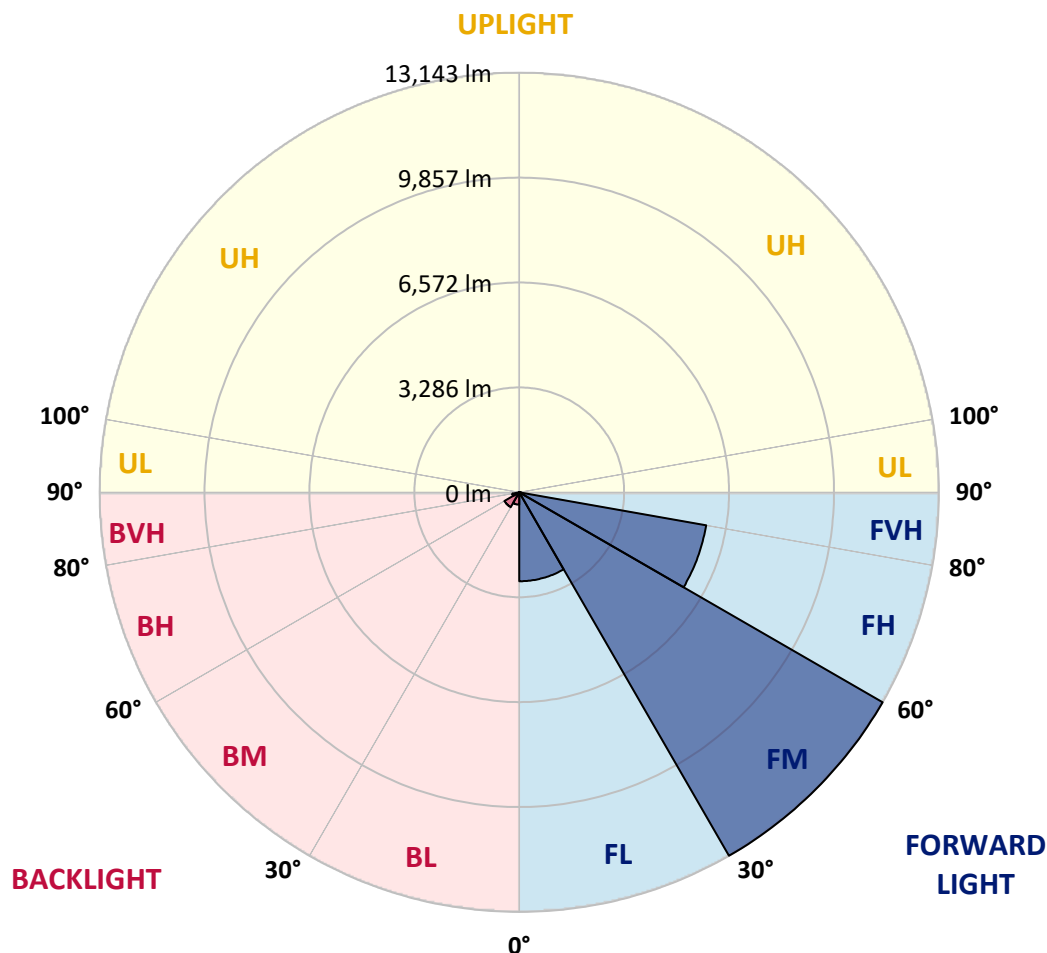
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2784.6	12.1			
FM	(30°-60°)	13143.1	57.0			
FH	(60°-80°)	5946.2	25.8			G3/7500
FVH	(80°-90°)	51.5	0.2			G1/100
BL	(0°-30°)	386.4	1.7	B1/500		
BM	(30°-60°)	536.2	2.3	B1/1000		
BH	(60°-80°)	221.4	1.0	B1/500		G1/500
BVH	(80°-90°)	1.7	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°	75°	76°	85°
0°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1
2.5°	2921.5	2855.8	2870.9	2828.5	2751.7	2594.0	2459.5	2332.1	2183.5	2178.5	2056.2
5°	3939.5	3883.9	3876.8	3790.8	3651.3	3383.5	3122.6	2825.4	2493.9	2469.6	2209.8
7.5°	4863.4	4818.9	4802.8	4700.7	4440.9	4180.0	3840.4	3403.7	2885.1	2840.6	2417.0
10°	5573.1	5551.8	5555.9	5483.1	5260.7	5018.1	4572.3	4015.3	3328.9	3260.1	2665.7
12.5°	6110.8	6115.9	6152.3	6107.8	5983.5	5803.5	5327.4	4667.3	3820.2	3726.2	2949.8
15°	6506.1	6531.4	6598.1	6653.7	6644.6	6488.9	6052.2	5329.4	4341.8	4237.7	3266.2
17.5°	6761.9	6790.2	6887.2	7010.5	7123.8	7087.4	6751.8	5968.3	4869.5	4749.2	3604.8
20°	6986.3	7019.6	7123.8	7286.5	7497.8	7543.3	7322.9	6588.0	5396.1	5249.6	3954.6
22.5°	7472.5	7471.5	7535.2	7630.2	7831.4	7948.7	7809.1	7163.2	5916.8	5764.1	4311.5
25°	8352.0	8318.6	8296.4	8221.6	8266.1	8338.9	8261.0	7701.0	6440.4	6285.7	4673.4
27.5°	9397.3	9417.5	9237.5	9036.4	8880.7	8805.9	8678.5	8199.4	6943.8	6774.0	5027.2
30°	10500.1	10506.2	10293.9	10037.2	9694.5	9410.4	9190.0	8675.5	7461.4	7276.4	5370.9
32.5°	11494.9	11455.4	11245.2	10895.4	10462.7	10143.3	9685.4	9207.2	8009.3	7830.4	5753.0
35°	12283.4	12236.9	11981.1	11662.7	11213.8	10892.4	10341.4	9737.9	8585.5	8410.6	6136.1
37.5°	12859.6	12805.0	12542.2	12214.6	11827.4	11640.4	11102.6	10315.2	9214.3	9026.3	6539.5
40°	13059.7	13012.2	12847.4	12607.9	12296.5	12254.0	11910.3	10979.3	9898.7	9698.5	6996.4
42.5°	12940.4	12893.9	12835.3	12754.4	12625.0	12665.5	12672.6	11736.5	10658.9	10461.7	7500.8
45°	12467.3	12425.9	12486.6	12604.8	12765.6	12965.7	13368.1	12550.2	11508.0	11297.7	8084.1
47.5°	11770.8	11740.5	11908.3	12203.5	12673.6	13225.5	14003.9	13405.5	12461.3	12266.2	8812.0
50°	10780.2	10775.1	11110.7	11649.5	12372.3	13350.9	14661.0	14377.9	13785.5	13580.3	9823.9
52.5°	9237.5	9247.6	9907.8	10770.1	11843.6	13265.9	15083.5	15627.4	15326.1	15112.9	10700.3
55°	7768.7	7829.4	8297.4	9540.8	11032.9	12950.6	15229.1	16210.7	16176.3	15974.1	11187.6
57.5°	6330.2	6440.4	6891.3	8052.8	9849.1	12223.7	15149.2	16463.4	16809.1	16654.5	11830.5
60°	4771.4	4822.0	5341.6	6427.3	8329.8	10897.4	14570.0	16600.9	17674.5	17567.3	12763.5
62.5°	3035.7	3162.1	3623.0	4670.3	6485.9	9055.6	13593.5	16598.9	18757.1	18815.8	13967.5
65°	1599.2	1746.8	1991.5	2894.2	4457.0	6998.4	12124.7	16443.2	20085.4	20167.3	14908.7
67.5°	862.3	904.7	1034.1	1502.2	2584.9	4741.1	9966.4	15674.9	20854.7	20962.9	15040.1
70°	630.8	654.0	702.6	831.0	1301.0	2753.7	7272.4	13933.1	19863.0	19822.6	13363.0
72.5°	484.2	520.6	557.0	608.6	748.1	1469.8	4527.8	10910.6	15848.8	15581.9	9988.6
75°	382.1	388.2	439.7	486.2	561.0	837.0	2010.7	6354.5	9673.2	9041.4	5179.8
77.5°	305.3	309.3	339.7	380.1	450.9	549.9	622.7	2499.9	3088.3	2755.7	1124.1
80°	180.9	191.1	252.7	293.2	374.0	346.7	227.5	542.8	482.2	436.7	189.0
82.5°	101.1	109.2	142.5	231.5	260.8	165.8	113.2	146.6	113.2	110.2	53.6
85°	0.0	5.1	92.0	143.5	106.1	36.4	47.5	48.5	33.4	31.3	21.2
87.5°	0.0	0.0	28.3	27.3	4.0	6.1	11.1	16.2	13.1	13.1	11.1
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°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1
2.5°	1995.5	1940.9	1837.8	1736.7	1651.8	1582.0	1519.4	1494.1	1473.9	1470.8	1454.7
5°	2084.5	1974.3	1777.2	1615.4	1507.2	1430.4	1364.7	1324.3	1292.9	1280.8	1269.7
7.5°	2218.9	2052.1	1769.1	1583.1	1453.7	1324.3	1203.0	1071.5	989.7	958.3	940.1
10°	2382.7	2155.2	1799.4	1574.0	1347.5	1074.6	873.4	706.6	638.9	616.6	610.6
12.5°	2573.7	2283.6	1852.0	1517.4	1121.1	763.2	602.5	545.9	530.7	523.6	523.6
15°	2793.1	2424.1	1889.4	1353.6	828.9	577.2	521.6	495.3	479.2	470.1	471.1
17.5°	3017.5	2561.6	1871.2	1116.0	611.6	513.5	472.1	443.8	421.5	412.4	410.4
20°	3244.0	2689.0	1770.1	831.0	517.6	466.0	419.5	388.2	365.9	356.8	354.8
22.5°	3478.5	2797.1	1592.2	609.6	465.0	413.5	368.0	336.6	315.4	307.3	303.3
25°	3706.9	2885.1	1343.5	493.3	415.5	363.9	320.5	291.1	271.9	263.8	262.8
27.5°	3920.2	2940.7	1055.4	435.7	372.0	319.4	280.0	253.7	237.6	231.5	230.5
30°	4112.3	2945.7	780.4	393.2	333.6	281.0	244.6	221.4	207.2	201.2	199.1
32.5°	4306.4	2903.3	568.1	354.8	298.2	247.7	212.3	194.1	184.0	178.9	178.9
35°	4489.4	2805.2	442.8	321.5	263.8	215.3	187.0	173.9	167.8	162.8	162.8
37.5°	4668.3	2664.7	376.1	292.1	231.5	188.0	164.8	156.7	151.6	146.6	146.6
40°	4850.3	2487.8	341.7	264.9	205.2	166.8	146.6	139.5	134.4	130.4	129.4
42.5°	5073.7	2283.6	319.4	239.6	182.0	147.6	129.4	121.3	117.3	113.2	111.2
45°	5332.5	2107.7	301.2	214.3	162.8	131.4	112.2	104.1	98.1	93.0	92.0
47.5°	5705.5	1980.3	277.0	187.0	144.6	114.2	97.0	87.9	78.8	73.8	72.8
50°	6181.6	1875.2	245.6	162.8	126.4	97.0	80.9	69.8	61.7	56.6	56.6
52.5°	6418.2	1737.7	217.3	141.5	106.1	81.9	65.7	52.6	48.5	43.5	43.5
55°	6513.2	1632.6	189.0	120.3	87.9	67.7	51.6	40.4	37.4	34.4	33.4
57.5°	6780.1	1602.3	164.8	102.1	72.8	53.6	39.4	30.3	28.3	24.3	24.3
60°	7209.7	1617.4	142.5	86.9	58.6	41.4	29.3	23.3	21.2	17.2	17.2
62.5°	7673.7	1598.2	120.3	74.8	45.5	30.3	20.2	17.2	17.2	10.1	9.1
65°	7762.6	1423.3	103.1	61.7	35.4	22.2	13.1	11.1	15.2	2.0	0.0
67.5°	7204.6	1103.9	89.0	47.5	26.3	17.2	10.1	5.1	13.1	0.0	0.0
70°	5761.1	701.6	71.8	34.4	20.2	14.2	8.1	2.0	10.1	0.0	0.0
72.5°	4073.9	407.4	56.6	24.3	17.2	11.1	6.1	0.0	6.1	0.0	0.0
75°	2060.2	217.3	35.4	18.2	13.1	8.1	4.0	0.0	1.0	0.0	0.0
77.5°	445.8	101.1	22.2	13.1	9.1	5.1	2.0	0.0	0.0	0.0	0.0
80°	97.0	44.5	14.2	8.1	5.1	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.4	23.3	7.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.2	12.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	4.0	1.0	1.0	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)