

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: P322038

Luminaire Tested: **GAN-SA4B-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322038
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-SA4B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 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: 12056 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 171
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

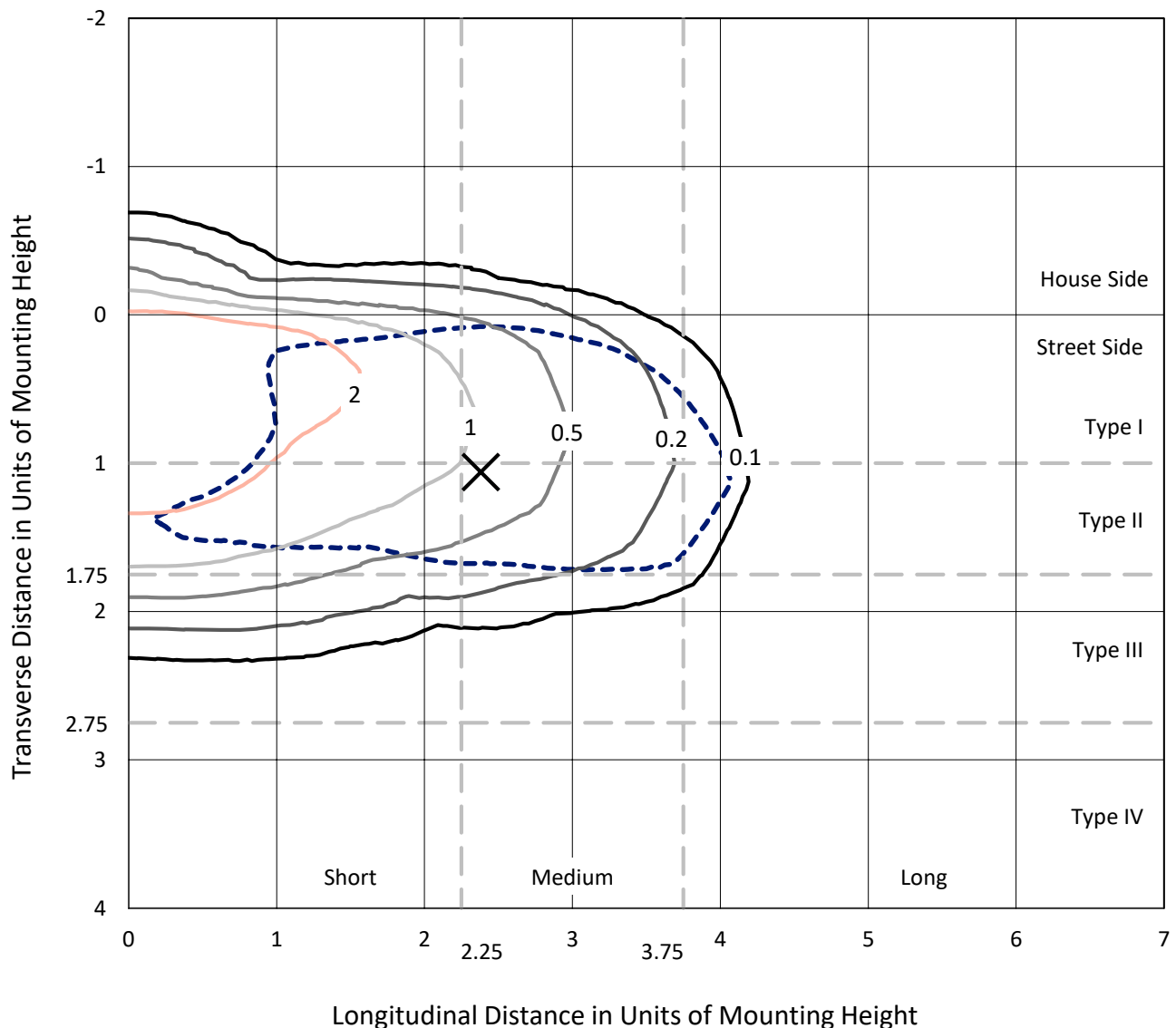


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Iso-Footcandle Lines of Horizontal Illumination

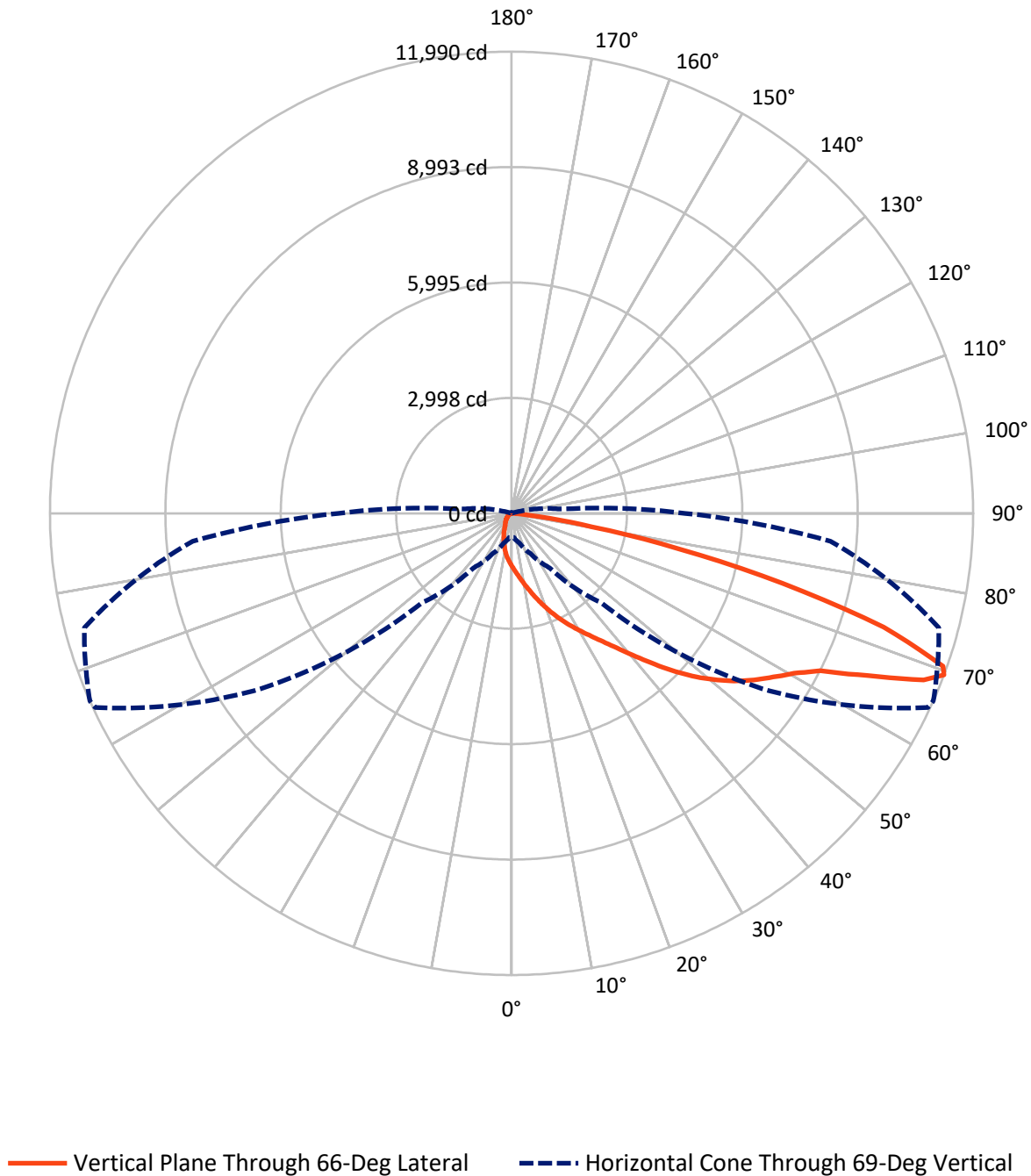
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	723.2	0.0	723.2
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	11332.8	0.0	11332.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	12056.0	0.0	12056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	1.1
10°-20°	394.7	3.3
20°-30°	687.3	5.7
30°-40°	1205.9	10.0
40°-50°	2018.5	16.7
50°-60°	2967.1	24.6
60°-70°	3046.4	25.3
70°-80°	1503.9	12.5
80°-90°	99.4	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°	12056.0	100.0
0°-180°	12056.0	100.0

Coefficient of Utilization



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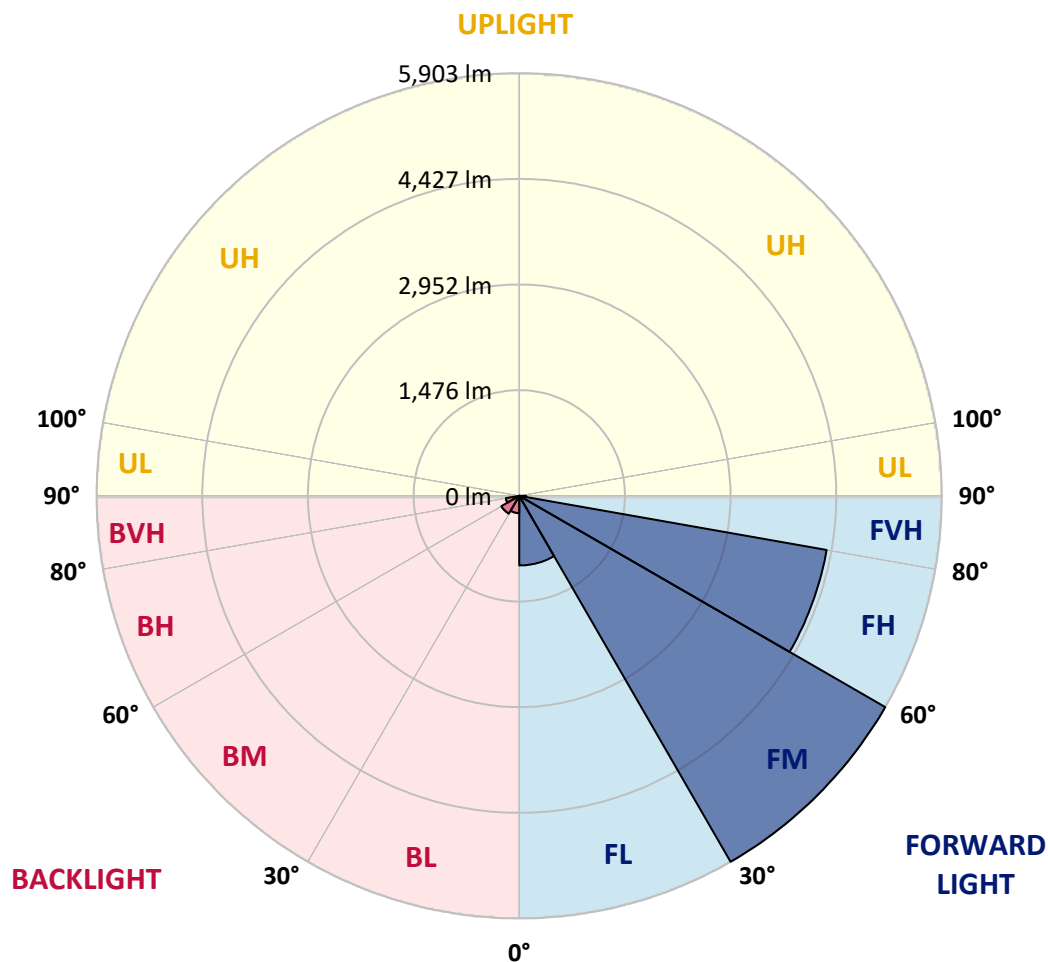
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	972.8	8.1			
FM	(30°-60°)	5903.2	49.0			
FH	(60°-80°)	4359.8	36.2			G2/5000
FVH	(80°-90°)	97.0	0.8			G1/100
BL	(0°-30°)	241.9	2.0	B1/500		
BM	(30°-60°)	288.3	2.4	B1/1000		
BH	(60°-80°)	190.6	1.6	B1/500		G1/500
BVH	(80°-90°)	2.4	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0
2.5°	1614.8	1607.9	1605.1	1592.5	1570.7	1554.1	1522.0	1484.8	1477.9	1441.9	1397.8
5°	1824.4	1818.7	1814.7	1796.9	1774.6	1732.8	1674.4	1605.1	1591.9	1523.2	1435.0
7.5°	1970.4	1980.7	1980.7	1969.3	1941.2	1909.7	1838.1	1743.6	1727.0	1621.7	1484.8
10°	2055.7	2068.3	2078.1	2087.8	2083.8	2071.2	2003.6	1897.1	1877.1	1737.3	1542.7
12.5°	2063.7	2076.3	2103.8	2144.5	2184.0	2212.6	2170.3	2067.2	2044.3	1871.3	1611.4
15°	2019.1	2032.2	2074.6	2153.6	2249.3	2332.9	2346.6	2255.6	2232.1	2031.1	1697.3
17.5°	1941.2	1949.8	2010.5	2119.9	2269.9	2423.4	2506.4	2457.7	2436.0	2213.8	1792.9
20°	1883.4	1889.7	1942.9	2060.3	2257.3	2480.0	2657.6	2672.4	2649.5	2409.6	1896.5
22.5°	1982.4	1993.9	1995.6	2051.1	2222.9	2508.1	2790.4	2883.7	2866.6	2617.5	1998.5
25°	2253.3	2266.5	2222.9	2188.6	2252.1	2520.7	2904.4	3100.2	3086.5	2841.4	2101.0
27.5°	2611.2	2624.9	2568.8	2466.3	2405.0	2568.2	3005.7	3320.1	3319.5	3078.4	2211.5
30°	2962.8	2976.5	2919.2	2816.7	2675.9	2702.8	3093.3	3550.3	3553.7	3322.9	2328.9
32.5°	3331.5	3348.7	3289.7	3158.0	3010.9	2935.3	3216.4	3781.6	3801.1	3606.4	2461.1
35°	3750.7	3753.0	3670.0	3532.0	3362.5	3246.2	3414.0	4041.0	4087.4	3957.4	2628.9
37.5°	4161.8	4178.5	4110.3	3892.7	3737.0	3605.3	3707.8	4365.1	4431.0	4386.3	2848.2
40°	4466.5	4501.4	4491.7	4256.9	4109.2	4015.3	4072.5	4750.5	4834.1	4885.6	3124.8
42.5°	4657.7	4684.1	4728.7	4587.3	4453.3	4468.8	4503.1	5199.4	5302.5	5454.8	3442.6
45°	4877.1	4889.7	4926.9	4864.5	4774.0	4929.7	4960.1	5705.1	5813.3	6067.0	3795.4
47.5°	5145.0	5174.8	5185.1	5127.9	5086.6	5337.4	5400.4	6164.9	6316.6	6722.6	4168.7
50°	5486.3	5494.3	5512.1	5474.9	5433.6	5687.9	5795.5	6647.6	6785.6	7380.6	4536.9
52.5°	5820.2	5848.8	5910.6	5887.2	5870.6	5986.2	6147.7	7082.8	7236.8	7929.1	4904.5
55°	5916.4	5941.0	6154.6	6300.6	6435.7	6353.9	6484.4	7472.8	7639.4	8419.3	5258.4
57.5°	5532.1	5582.0	5951.9	6332.1	6892.7	6925.3	6947.1	7873.0	8022.5	8795.0	5626.6
60°	4561.0	4570.7	5177.7	5829.9	6817.1	7424.1	7622.8	8303.1	8428.5	9144.8	6067.5
62.5°	2900.9	3000.0	3666.0	4586.7	6017.7	7351.9	8439.9	8953.6	8999.4	9564.6	6699.7
65°	1381.7	1445.9	1925.7	2833.9	4358.8	6428.3	9004.0	10130.3	10150.9	10396.6	7544.3
67.5°	765.0	795.9	1024.4	1525.5	2548.2	4546.1	8776.1	11524.1	11543.6	11246.4	8285.3
69°	598.4	624.7	804.5	1149.8	1727.6	3267.4	7941.7	11932.4	11990.2	11489.7	8311.7
70°	507.9	533.7	692.9	971.2	1389.2	2524.7	7069.1	11831.0	11892.3	11466.8	8115.3
72.5°	310.9	325.8	461.5	683.7	931.1	1270.1	4359.4	10005.5	10109.1	10518.6	6974.6
75°	209.6	217.6	288.6	471.8	666.0	653.9	2264.7	7052.5	7276.9	8182.3	5151.3
77.5°	150.0	157.5	193.5	305.2	466.7	431.8	1025.6	4382.9	4431.0	4907.4	2809.3
80°	85.3	92.2	136.9	181.5	316.7	288.0	407.7	2093.5	2117.6	2104.4	938.0
82.5°	44.7	50.4	75.0	119.7	203.3	188.4	169.5	700.9	704.3	585.8	205.6
85°	8.6	10.3	37.2	81.9	104.8	81.9	69.3	164.3	167.8	148.3	51.0
87.5°	0.0	0.6	14.9	18.3	20.6	21.2	22.3	32.1	34.4	46.4	13.7
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°	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0
2.5°	1378.3	1357.7	1318.2	1272.4	1236.9	1201.9	1174.5	1145.8	1135.5	1130.4	1129.8
5°	1392.1	1348.5	1264.9	1179.0	1108.6	1042.2	994.7	949.4	928.2	918.5	914.5
7.5°	1415.0	1345.1	1210.5	1079.4	978.0	895.0	829.2	779.9	755.3	745.0	741.0
10°	1441.9	1340.5	1147.0	974.0	844.6	758.7	693.4	644.8	617.9	606.4	600.7
12.5°	1473.4	1332.5	1073.7	867.5	730.7	644.8	565.8	505.6	474.7	461.5	455.2
15°	1512.3	1324.5	996.9	767.3	630.5	525.7	439.2	398.5	392.2	390.0	390.5
17.5°	1550.7	1311.9	913.3	668.3	525.1	410.6	366.5	364.2	365.3	365.3	365.3
20°	1585.0	1283.3	822.3	583.5	424.9	346.4	337.3	333.3	330.4	328.1	325.3
22.5°	1611.9	1244.9	734.7	499.3	347.0	317.2	302.9	290.3	280.0	273.1	269.7
25°	1630.3	1193.9	654.5	418.6	312.1	288.6	262.8	241.6	225.6	215.9	211.9
27.5°	1644.0	1139.0	582.9	350.4	288.0	255.4	221.6	196.4	179.8	171.2	167.8
30°	1653.7	1076.5	519.9	308.1	261.1	220.5	184.4	159.8	147.7	143.2	140.9
32.5°	1662.9	1007.2	460.4	288.0	235.9	188.4	154.6	135.7	128.3	122.5	120.8
35°	1685.8	943.1	403.7	266.8	210.2	160.9	132.8	119.1	111.7	108.2	107.1
37.5°	1740.2	895.6	349.3	245.1	184.4	139.1	116.2	106.5	99.6	96.2	95.1
40°	1827.8	871.5	303.5	221.6	159.2	122.5	105.4	96.2	88.8	83.6	82.5
42.5°	1956.7	875.0	271.4	198.1	139.1	109.4	95.1	84.2	76.2	71.6	70.4
45°	2113.0	900.2	249.1	175.2	122.5	99.1	83.6	72.2	64.7	60.7	59.6
47.5°	2282.5	940.8	230.8	154.6	109.4	89.3	72.2	60.1	53.8	50.4	49.8
50°	2461.1	980.3	211.9	134.6	97.9	79.6	60.7	49.8	44.7	41.8	40.7
52.5°	2642.1	1026.1	194.7	116.2	88.2	68.1	50.4	40.7	36.6	34.4	33.2
55°	2836.8	1060.5	178.1	101.9	78.4	57.8	41.8	33.8	30.3	27.5	26.9
57.5°	3065.8	1113.8	160.9	88.2	67.0	48.1	34.4	26.9	24.1	21.2	20.6
60°	3375.1	1176.2	142.6	77.9	55.0	39.5	28.1	21.8	18.3	16.0	15.5
62.5°	3782.8	1245.5	119.7	68.1	44.7	32.1	22.3	17.2	13.2	10.3	10.3
65°	4299.8	1358.3	97.9	57.3	36.6	26.3	17.2	12.6	7.4	4.6	4.6
67.5°	4601.6	1377.7	79.0	47.0	29.8	22.3	14.3	8.6	2.3	0.6	0.0
69°	4504.8	1264.9	67.0	40.1	25.8	21.2	13.2	6.3	1.1	0.0	0.0
70°	4322.8	1156.7	59.0	35.5	23.5	20.0	12.6	4.6	1.1	0.0	0.0
72.5°	3572.0	823.4	44.7	26.3	17.2	17.8	11.5	2.9	1.1	0.0	0.0
75°	2602.0	500.5	32.1	18.3	10.9	13.2	8.0	1.1	0.6	0.0	0.0
77.5°	1447.6	235.9	20.0	10.3	6.9	8.0	4.0	0.0	0.0	0.0	0.0
80°	470.1	64.1	9.2	5.7	4.0	4.6	1.7	0.0	0.0	0.0	0.0
82.5°	87.0	18.3	5.2	2.9	1.1	1.1	0.0	0.0	0.0	0.0	0.0
85°	18.9	7.4	2.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	2.3	0.6	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)