

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: P322057

Luminaire Tested: **GAN-SA3D-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322057
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-SA3D-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA 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: 12387 lumens
Efficiency: N/A
Efficacy: 64.9 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): 191
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



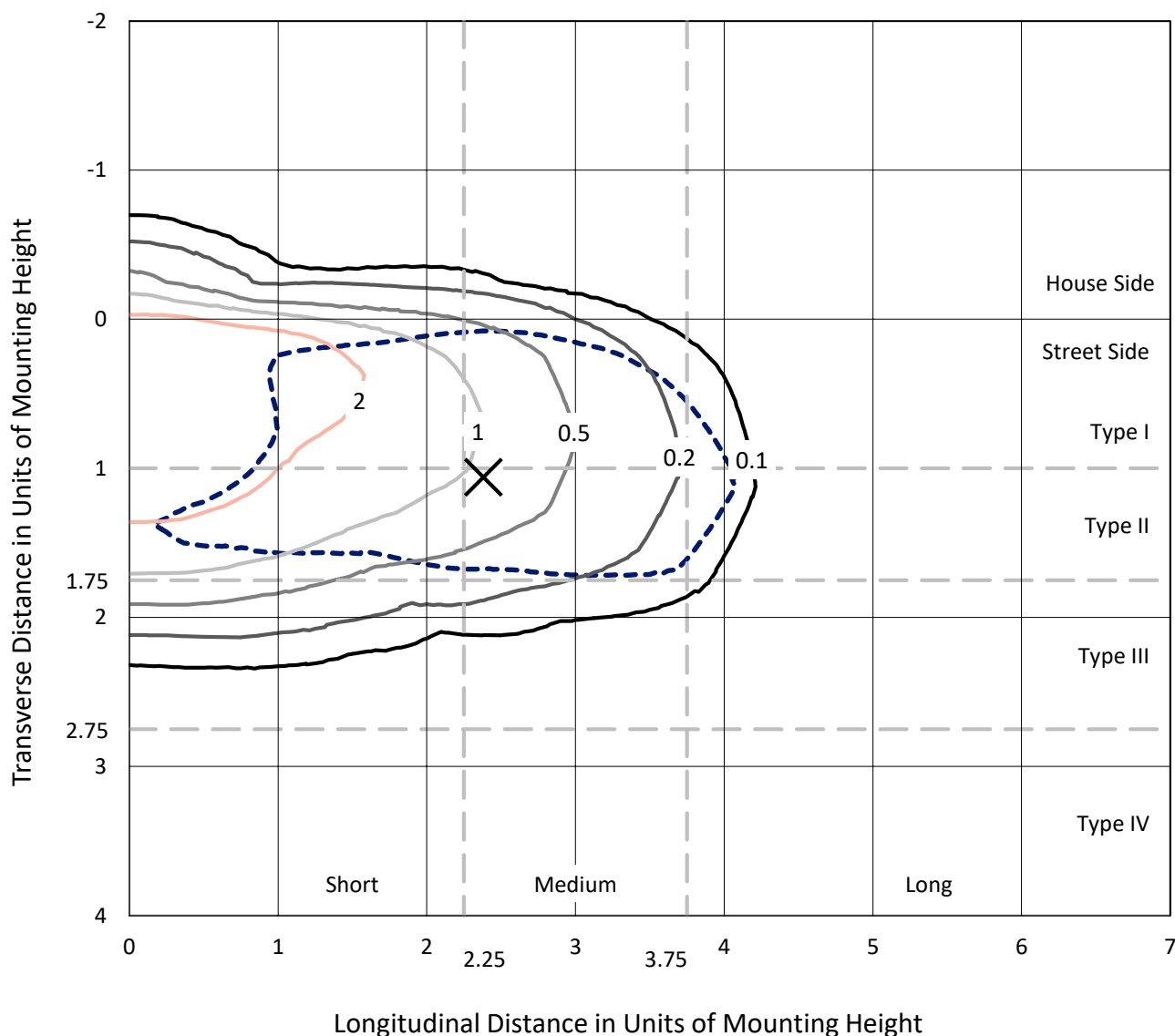
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

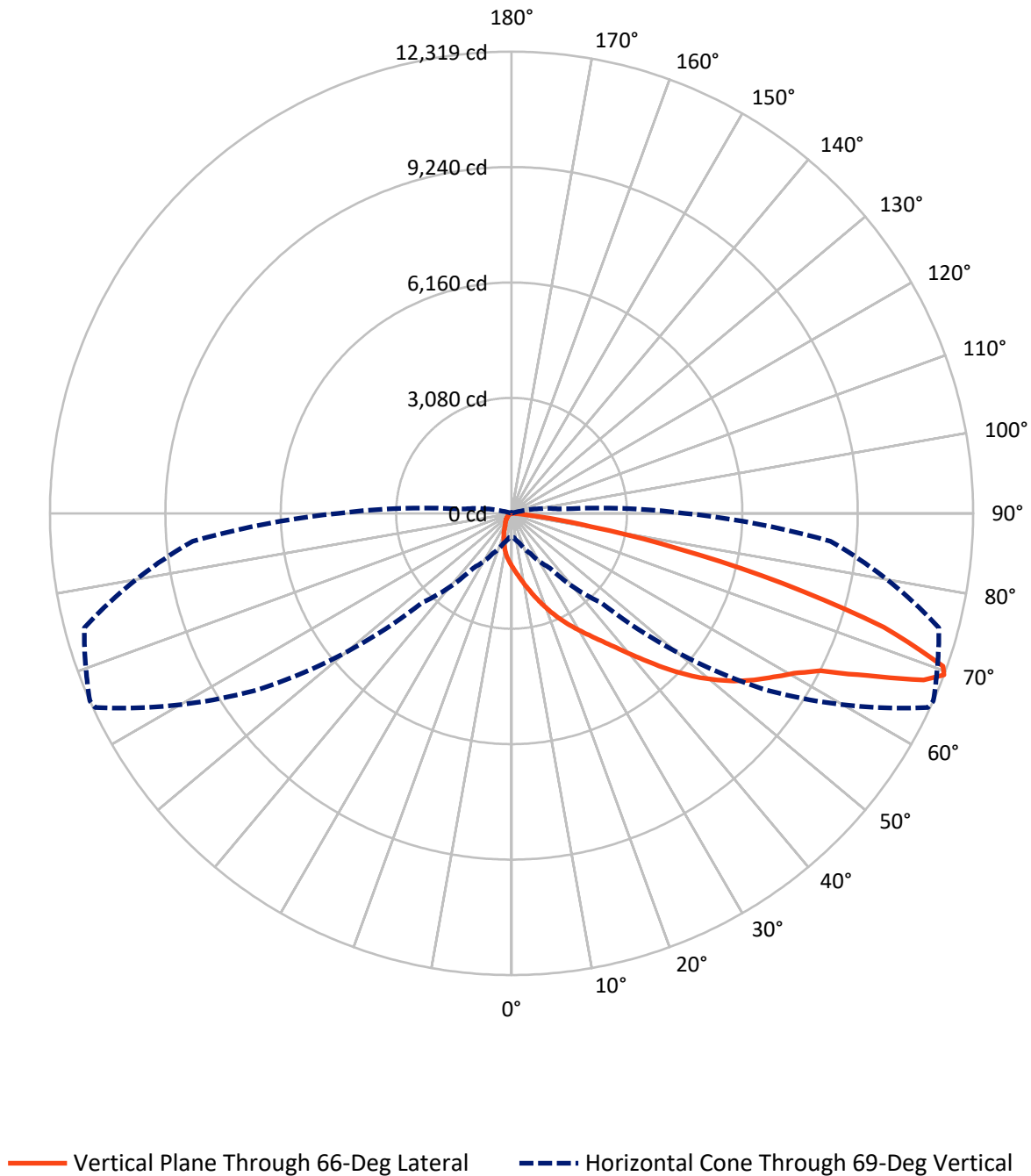
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	743.0	0.0	743.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	11644.0	0.0	11644.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	12387.0	0.0	12387.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	1.1
10°-20°	405.5	3.3
20°-30°	706.2	5.7
30°-40°	1239.0	10.0
40°-50°	2074.0	16.7
50°-60°	3048.5	24.6
60°-70°	3130.1	25.3
70°-80°	1545.2	12.5
80°-90°	102.2	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°	12387.0	100.0
0°-180°	12387.0	100.0

Coefficient of Utilization



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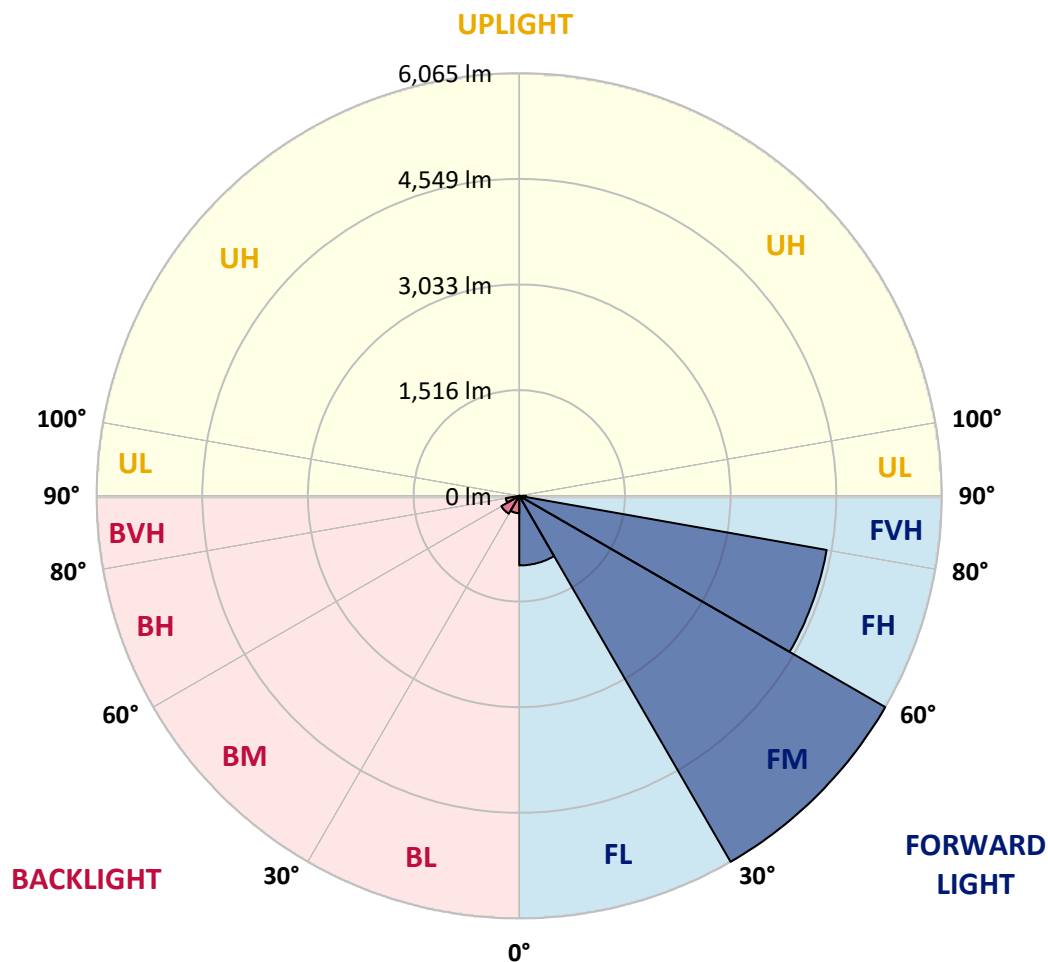
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	999.5	8.1			
FM	(30°-60°)	6065.3	49.0			
FH	(60°-80°)	4479.5	36.2			G2/5000
FVH	(80°-90°)	99.7	0.8			G1/100
BL	(0°-30°)	248.5	2.0	B1/500		
BM	(30°-60°)	296.3	2.4	B1/1000		
BH	(60°-80°)	195.8	1.6	B1/500		G1/500
BVH	(80°-90°)	2.5	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°	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7
2.5°	1659.1	1652.1	1649.1	1636.2	1613.8	1596.8	1563.8	1525.6	1518.5	1481.5	1436.2
5°	1874.5	1868.6	1864.5	1846.2	1823.3	1780.3	1720.3	1649.1	1635.6	1565.0	1474.4
7.5°	2024.5	2035.1	2035.1	2023.3	1994.5	1962.1	1888.6	1791.5	1774.5	1666.2	1525.6
10°	2112.2	2125.1	2135.1	2145.1	2141.0	2128.1	2058.6	1949.2	1928.6	1785.0	1585.0
12.5°	2120.4	2133.3	2161.6	2203.4	2244.0	2273.4	2229.8	2123.9	2100.4	1922.7	1655.6
15°	2074.5	2088.0	2131.6	2212.8	2311.0	2396.9	2411.0	2317.5	2293.4	2086.9	1743.9
17.5°	1994.5	2003.3	2065.7	2178.1	2332.2	2489.9	2575.2	2525.2	2502.8	2274.6	1842.1
20°	1935.1	1941.5	1996.3	2116.9	2319.3	2548.1	2730.5	2745.8	2722.3	2475.8	1948.6
22.5°	2036.9	2048.6	2050.4	2107.5	2284.0	2577.0	2867.0	2962.9	2945.3	2689.3	2053.3
25°	2315.1	2328.7	2284.0	2248.7	2314.0	2589.9	2984.1	3185.3	3171.2	2919.4	2158.6
27.5°	2682.9	2697.0	2639.3	2534.0	2471.1	2638.7	3088.2	3411.2	3410.6	3163.0	2272.2
30°	3044.1	3058.2	2999.4	2894.1	2749.3	2777.0	3178.3	3647.8	3651.3	3414.2	2392.8
32.5°	3423.0	3440.7	3380.1	3244.7	3093.5	3015.9	3304.7	3885.4	3905.5	3705.4	2528.7
35°	3853.7	3856.0	3770.7	3628.9	3454.8	3335.3	3507.7	4152.0	4199.6	4066.1	2701.1
37.5°	4276.1	4293.2	4223.2	3999.6	3839.6	3704.2	3809.5	4485.0	4552.6	4506.7	2926.4
40°	4589.1	4625.0	4615.0	4373.8	4222.0	4125.5	4184.3	4880.9	4966.8	5019.8	3210.6
42.5°	4785.6	4812.7	4858.6	4713.3	4575.6	4591.5	4626.8	5342.2	5448.1	5604.6	3537.1
45°	5011.0	5023.9	5062.1	4998.0	4905.1	5065.1	5096.3	5861.7	5972.9	6233.5	3899.6
47.5°	5286.3	5316.9	5327.5	5268.7	5226.3	5484.0	5548.7	6334.1	6490.1	6907.2	4283.2
50°	5637.0	5645.2	5663.4	5625.2	5582.8	5844.1	5954.7	6830.1	6971.9	7583.2	4661.5
52.5°	5980.0	6009.4	6072.9	6048.8	6031.7	6150.6	6316.5	7277.3	7435.5	8146.8	5039.2
55°	6078.8	6104.1	6323.6	6473.6	6612.4	6528.3	6662.4	7677.9	7849.1	8650.5	5402.8
57.5°	5684.0	5735.2	6115.3	6505.9	7081.9	7115.5	7137.8	8089.2	8242.7	9036.4	5781.1
60°	4686.2	4696.2	5319.8	5990.0	7004.3	7627.9	7832.1	8531.0	8659.9	9395.9	6234.1
62.5°	2980.6	3082.4	3766.6	4712.7	6182.9	7553.8	8671.7	9199.4	9246.5	9827.2	6883.7
65°	1419.7	1485.6	1978.6	2911.7	4478.5	6604.8	9251.2	10408.5	10429.6	10682.0	7751.5
67.5°	786.0	817.8	1052.6	1567.4	2618.1	4670.9	9017.0	11840.5	11860.5	11555.1	8512.8
69°	614.8	641.9	826.6	1181.4	1775.0	3357.1	8159.8	12260.0	12319.4	11805.2	8539.9
70°	521.9	548.3	711.9	997.8	1427.3	2594.0	7263.1	12155.8	12218.8	11781.7	8338.1
72.5°	319.5	334.8	474.2	702.5	956.7	1305.0	4479.1	10280.2	10386.7	10807.4	7166.1
75°	215.3	223.6	296.5	484.8	684.2	671.9	2326.9	7246.1	7476.7	8406.9	5292.8
77.5°	154.1	161.8	198.9	313.6	479.5	443.6	1053.7	4503.2	4552.6	5042.1	2886.4
80°	87.7	94.7	140.6	186.5	325.4	295.9	418.9	2151.0	2175.7	2162.2	963.7
82.5°	45.9	51.8	77.1	123.0	208.9	193.6	174.2	720.1	723.7	601.9	211.2
85°	8.8	10.6	38.2	84.1	107.7	84.1	71.2	168.9	172.4	152.4	52.4
87.5°	0.0	0.6	15.3	18.8	21.2	21.8	22.9	32.9	35.3	47.7	14.1
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°	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7
2.5°	1416.2	1395.0	1354.4	1307.3	1270.8	1234.9	1206.7	1177.3	1166.7	1161.4	1160.8
5°	1430.3	1385.6	1299.7	1211.4	1139.0	1070.8	1022.0	975.5	953.7	943.7	939.6
7.5°	1453.8	1382.0	1243.8	1109.0	1004.9	919.6	851.9	801.3	776.0	765.4	761.3
10°	1481.5	1377.3	1178.5	1000.8	867.8	779.6	712.5	662.5	634.8	623.1	617.2
12.5°	1513.8	1369.1	1103.2	891.3	750.7	662.5	581.3	519.5	487.7	474.2	467.7
15°	1553.8	1360.8	1024.3	788.4	647.8	540.1	451.3	409.5	403.0	400.7	401.3
17.5°	1593.2	1347.9	938.4	686.6	539.5	421.8	376.5	374.2	375.4	375.4	375.4
20°	1628.5	1318.5	844.9	599.5	436.6	356.0	346.5	342.4	339.5	337.1	334.2
22.5°	1656.2	1279.1	754.8	513.0	356.5	325.9	311.2	298.3	287.7	280.6	277.1
25°	1675.0	1226.7	672.5	430.1	320.6	296.5	270.1	248.3	231.8	221.8	217.7
27.5°	1689.1	1170.2	598.9	360.1	295.9	262.4	227.7	201.8	184.7	175.9	172.4
30°	1699.1	1106.1	534.2	316.5	268.3	226.5	189.4	164.1	151.8	147.1	144.7
32.5°	1708.6	1034.9	473.0	295.9	242.4	193.6	158.9	139.4	131.8	125.9	124.1
35°	1732.1	969.0	414.8	274.2	215.9	165.3	136.5	122.4	114.7	111.2	110.0
37.5°	1788.0	920.2	358.9	251.8	189.4	143.0	119.4	109.4	102.4	98.8	97.7
40°	1878.0	895.5	311.8	227.7	163.6	125.9	108.3	98.8	91.2	85.9	84.7
42.5°	2010.4	899.0	278.9	203.6	143.0	112.4	97.7	86.5	78.3	73.5	72.4
45°	2171.0	924.9	255.9	180.0	125.9	101.8	85.9	74.1	66.5	62.4	61.2
47.5°	2345.2	966.7	237.1	158.9	112.4	91.8	74.1	61.8	55.3	51.8	51.2
50°	2528.7	1007.3	217.7	138.3	100.6	81.8	62.4	51.2	45.9	42.9	41.8
52.5°	2714.6	1054.3	200.0	119.4	90.6	70.0	51.8	41.8	37.7	35.3	34.1
55°	2914.7	1089.6	183.0	104.7	80.6	59.4	42.9	34.7	31.2	28.2	27.7
57.5°	3150.0	1144.3	165.3	90.6	68.8	49.4	35.3	27.7	24.7	21.8	21.2
60°	3467.7	1208.5	146.5	80.0	56.5	40.6	28.8	22.4	18.8	16.5	15.9
62.5°	3886.6	1279.7	123.0	70.0	45.9	32.9	22.9	17.7	13.5	10.6	10.6
65°	4417.9	1395.6	100.6	58.8	37.7	27.1	17.7	12.9	7.6	4.7	4.7
67.5°	4728.0	1415.6	81.2	48.2	30.6	22.9	14.7	8.8	2.4	0.6	0.0
69°	4628.5	1299.7	68.8	41.2	26.5	21.8	13.5	6.5	1.2	0.0	0.0
70°	4441.4	1188.5	60.6	36.5	24.1	20.6	12.9	4.7	1.2	0.0	0.0
72.5°	3670.1	846.0	45.9	27.1	17.7	18.2	11.8	2.9	1.2	0.0	0.0
75°	2673.5	514.2	32.9	18.8	11.2	13.5	8.2	1.2	0.6	0.0	0.0
77.5°	1487.3	242.4	20.6	10.6	7.1	8.2	4.1	0.0	0.0	0.0	0.0
80°	483.0	65.9	9.4	5.9	4.1	4.7	1.8	0.0	0.0	0.0	0.0
82.5°	89.4	18.8	5.3	2.9	1.2	1.2	0.0	0.0	0.0	0.0	0.0
85°	19.4	7.6	2.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	2.4	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)