

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: P321848

Luminaire Tested: **GAN-SA4C-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321848
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-SA4C-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA 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: 16974 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 225
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

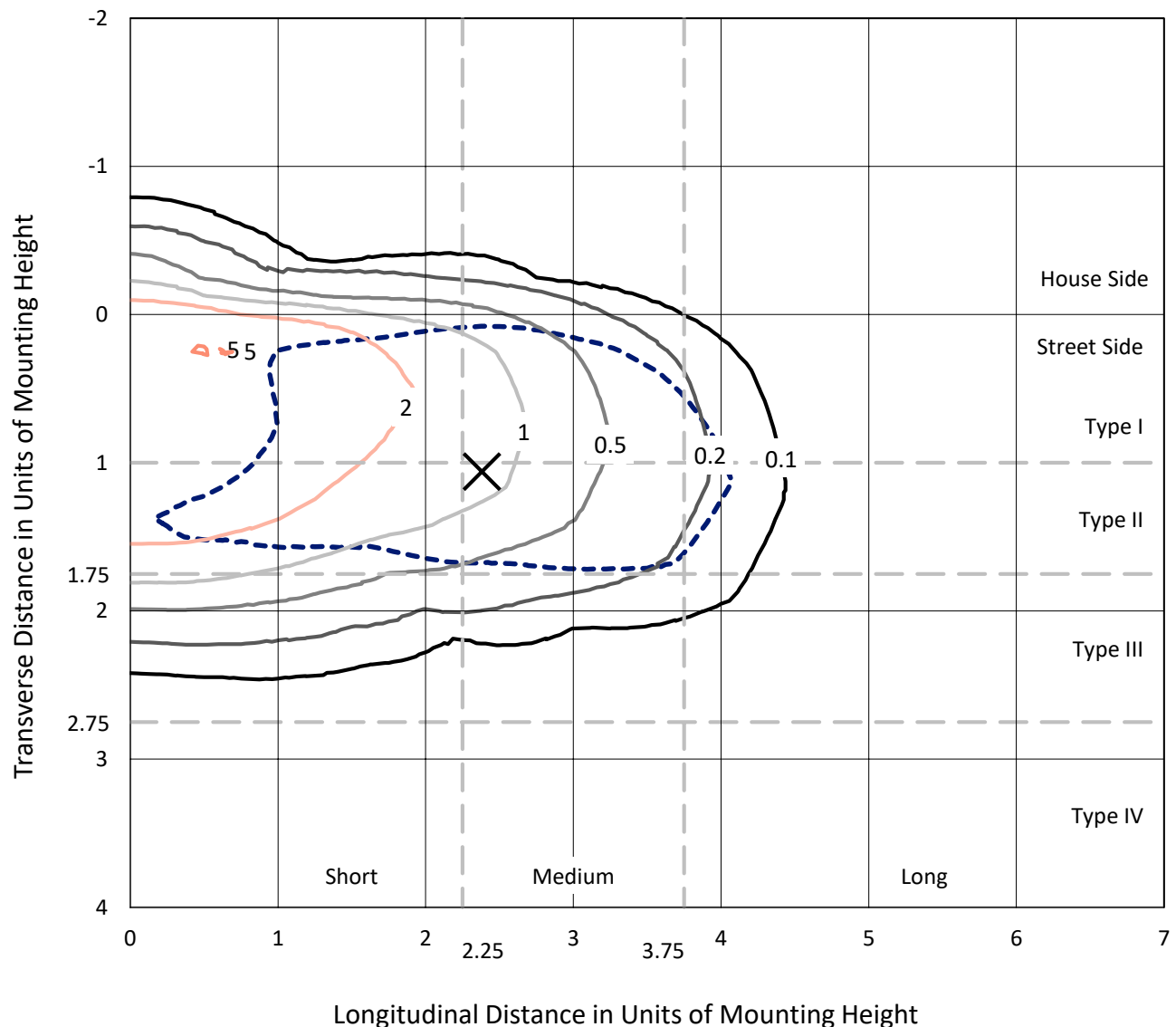


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Iso-Footcandle Lines of Horizontal Illumination

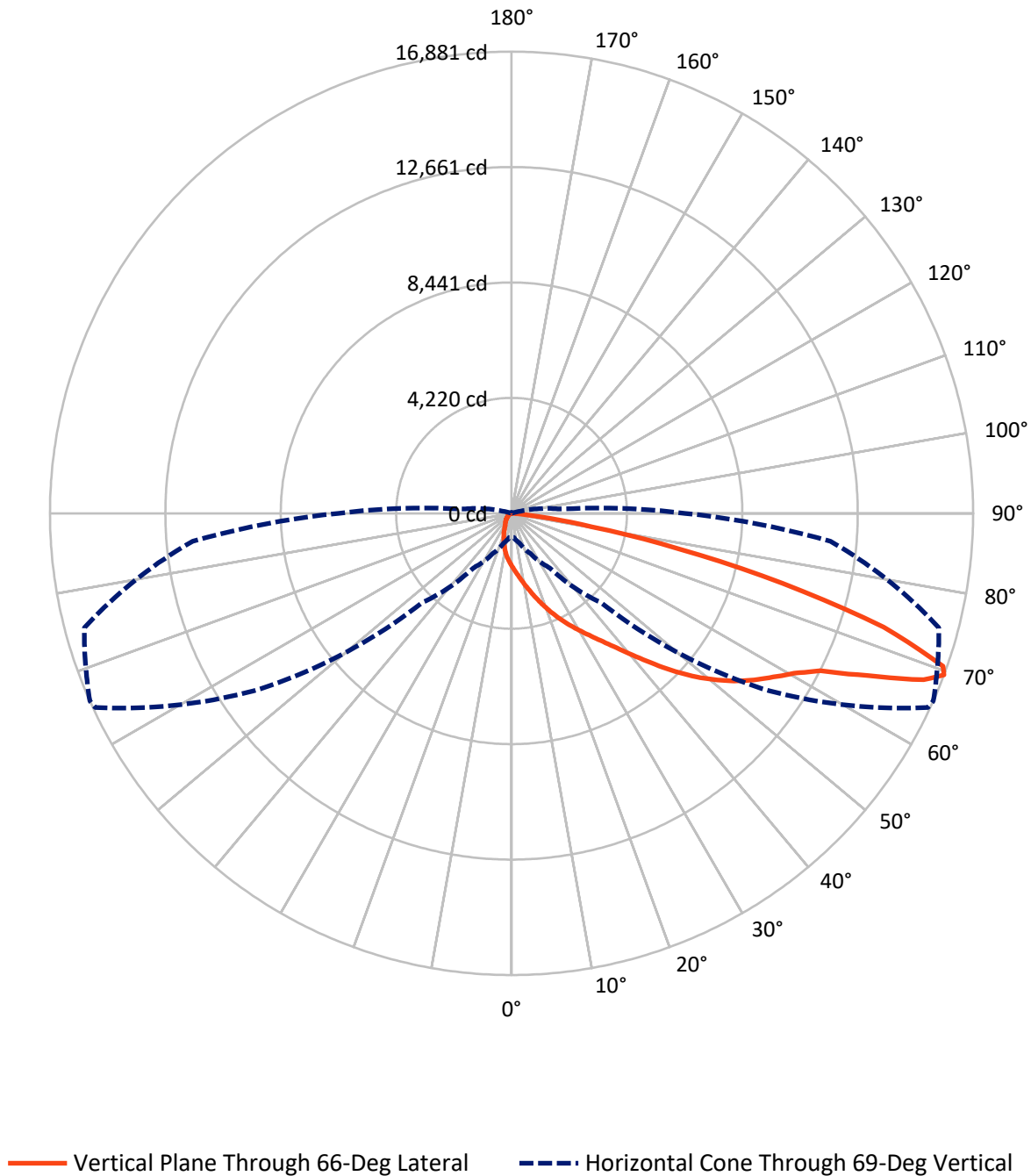
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	1018.2	0.0	1018.2
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	15955.8	0.0	15955.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	16974.0	0.0	16974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	1.1
10°-20°	555.7	3.3
20°-30°	967.7	5.7
30°-40°	1697.9	10.0
40°-50°	2842.0	16.7
50°-60°	4177.4	24.6
60°-70°	4289.1	25.3
70°-80°	2117.4	12.5
80°-90°	140.0	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°	16974.0	100.0
0°-180°	16974.0	100.0

Coefficient of Utilization



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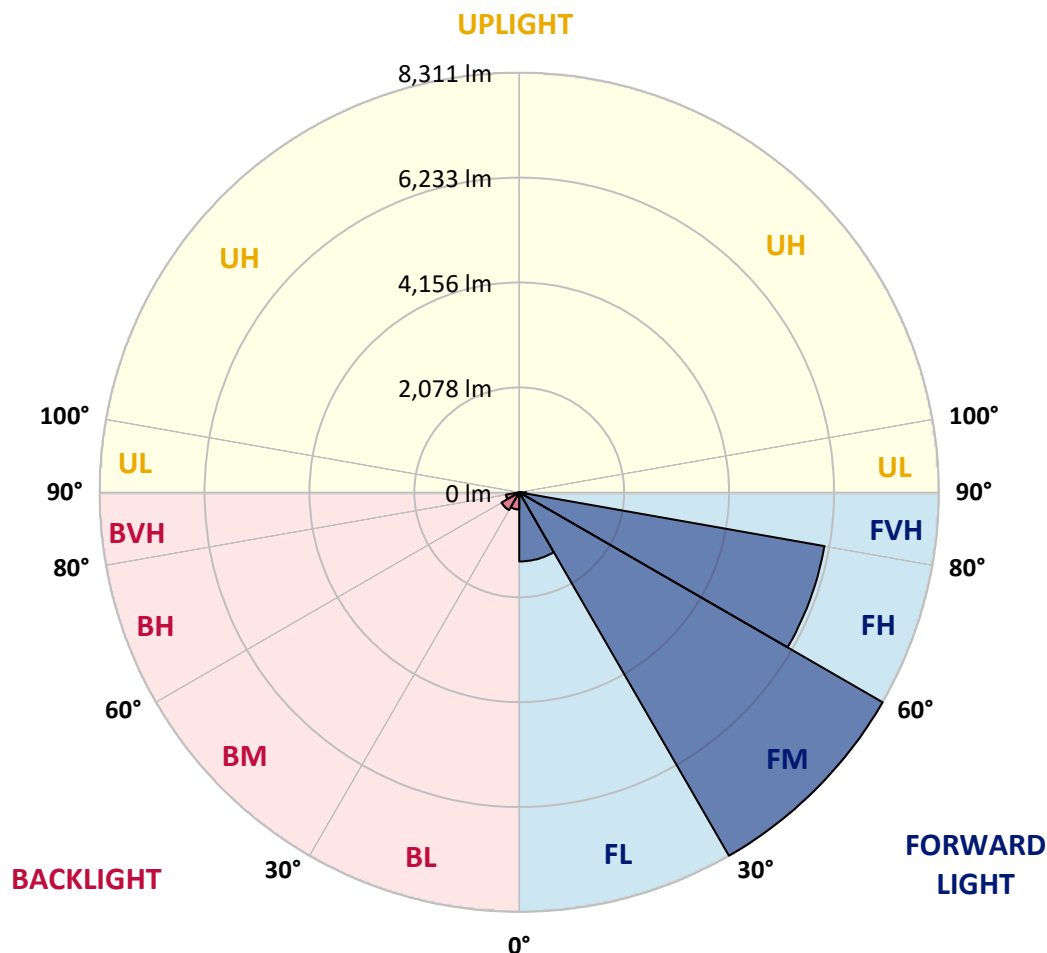
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1369.6	8.1			
FM	(30°-60°)	8311.3	49.0			
FH	(60°-80°)	6138.3	36.2			G3/7500
FVH	(80°-90°)	136.6	0.8			G2/225
BL	(0°-30°)	340.5	2.0	B1/500		
BM	(30°-60°)	406.0	2.4	B1/1000		
BH	(60°-80°)	268.3	1.6	B1/500		G1/500
BVH	(80°-90°)	3.4	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1931.7	1931.7	1931.7	1931.7	1931.7	1931.7	1931.7	1931.7	1931.7	1931.7	1931.7
2.5°	2273.5	2263.9	2259.8	2242.1	2211.5	2188.1	2142.9	2090.5	2080.8	2030.1	1968.0
5°	2568.6	2560.5	2554.9	2529.9	2498.5	2439.6	2357.4	2259.8	2241.3	2144.5	2020.4
7.5°	2774.2	2788.7	2788.7	2772.6	2733.1	2688.7	2588.0	2454.9	2431.6	2283.2	2090.5
10°	2894.3	2912.1	2925.8	2939.5	2933.8	2916.1	2821.0	2671.0	2642.8	2446.1	2171.9
12.5°	2905.6	2923.3	2962.0	3019.3	3074.9	3115.2	3055.6	2910.4	2878.2	2634.7	2268.7
15°	2842.7	2861.3	2920.9	3032.2	3166.8	3284.5	3303.9	3175.7	3142.6	2859.7	2389.6
17.5°	2733.1	2745.2	2830.6	2984.6	3195.8	3411.9	3528.8	3460.3	3429.6	3116.8	2524.3
20°	2651.6	2660.5	2735.5	2900.8	3178.1	3491.7	3741.7	3762.6	3730.4	3392.6	2670.2
22.5°	2791.1	2807.2	2809.7	2887.9	3129.7	3531.2	3928.7	4060.1	4035.9	3685.2	2813.7
25°	3172.5	3191.0	3129.7	3081.4	3170.9	3549.0	4089.1	4364.9	4345.5	4000.4	2958.0
27.5°	3676.3	3695.7	3616.7	3472.4	3386.1	3615.9	4231.8	4674.4	4673.6	4334.2	3113.6
30°	4171.4	4190.7	4110.1	3965.8	3767.5	3805.3	4355.2	4998.5	5003.4	4678.5	3278.9
32.5°	4690.6	4714.8	4631.7	4446.3	4239.1	4132.7	4528.5	5324.3	5351.7	5077.6	3465.1
35°	5280.7	5283.9	5167.0	4972.7	4734.1	4570.4	4806.7	5689.5	5754.8	5571.8	3701.3
37.5°	5859.6	5883.0	5787.0	5480.7	5261.4	5075.9	5220.3	6145.8	6238.5	6175.6	4010.1
40°	6288.5	6337.7	6324.0	5993.4	5785.4	5653.2	5733.8	6688.4	6806.1	6878.6	4399.5
42.5°	6557.8	6594.9	6657.7	6458.6	6269.9	6291.7	6340.1	7320.4	7465.6	7680.0	4847.0
45°	6866.5	6884.3	6936.7	6848.8	6721.4	6940.7	6983.5	8032.3	8184.7	8541.9	5343.6
47.5°	7243.9	7285.8	7300.3	7219.7	7161.6	7514.7	7603.4	8679.7	8893.4	9465.0	5869.3
50°	7724.4	7735.7	7760.6	7708.2	7650.2	8008.2	8159.7	9359.4	9553.7	10391.3	6387.7
52.5°	8194.4	8234.7	8321.8	8288.7	8265.3	8428.2	8655.5	9972.1	10189.0	11163.7	6905.2
55°	8329.8	8364.5	8665.2	8870.8	9061.1	8945.8	9129.6	10521.1	10755.7	11853.8	7403.5
57.5°	7788.9	7859.0	8379.8	8915.1	9704.4	9750.4	9781.0	11084.7	11295.1	12382.7	7921.9
60°	6421.5	6435.2	7289.8	8208.1	9598.0	10452.6	10732.4	11690.1	11866.7	12875.3	8542.7
62.5°	4084.3	4223.8	5161.4	6457.8	8472.5	10351.0	11882.8	12606.0	12670.5	13466.2	9432.7
65°	1945.4	2035.7	2711.3	3990.0	6136.9	9050.6	12677.0	14262.8	14291.8	14637.7	10621.9
67.5°	1077.1	1120.6	1442.3	2147.8	3587.7	6400.6	12356.1	16225.1	16252.5	15834.1	11665.2
69°	842.5	879.6	1132.7	1618.9	2432.4	4600.3	11181.4	16799.9	16881.4	16176.7	11702.2
70°	715.1	751.4	975.5	1367.3	1955.9	3554.6	9952.7	16657.2	16743.5	16144.5	11425.7
72.5°	437.8	458.7	649.8	962.6	1310.9	1788.2	6137.7	14087.0	14233.0	14809.4	9819.7
75°	295.1	306.4	406.3	664.3	937.6	920.7	3188.6	9929.4	10245.4	11520.0	7252.7
77.5°	211.2	221.7	272.5	429.7	657.1	607.9	1443.9	6170.8	6238.5	6909.3	3955.3
80°	120.1	129.8	192.7	255.6	445.8	405.5	574.0	2947.5	2981.4	2962.8	1320.6
82.5°	62.9	70.9	105.6	168.5	286.2	265.2	238.6	986.8	991.6	824.8	289.4
85°	12.1	14.5	52.4	115.3	147.5	115.3	97.6	231.4	236.2	208.8	71.8
87.5°	0.0	0.8	21.0	25.8	29.0	29.8	31.4	45.1	48.4	65.3	19.3
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°	1931.7	1931.7	1931.7	1931.7	1931.7	1931.7	1931.7	1931.7	1931.7	1931.7	1931.7
2.5°	1940.6	1911.5	1855.9	1791.4	1741.4	1692.2	1653.6	1613.2	1598.7	1591.5	1590.7
5°	1959.9	1898.6	1780.9	1660.0	1560.8	1467.3	1400.4	1336.7	1306.9	1293.2	1287.5
7.5°	1992.2	1893.8	1704.3	1519.7	1377.0	1260.1	1167.4	1098.1	1063.4	1048.9	1043.2
10°	2030.1	1887.4	1614.9	1371.4	1189.2	1068.2	976.3	907.8	869.9	853.8	845.7
12.5°	2074.4	1876.1	1511.7	1221.4	1028.7	907.8	796.5	711.9	668.4	649.8	640.9
15°	2129.2	1864.8	1403.6	1080.3	887.6	740.1	618.4	561.1	552.3	549.0	549.8
17.5°	2183.2	1847.0	1285.9	940.9	739.3	578.1	516.0	512.8	514.4	514.4	514.4
20°	2231.6	1806.7	1157.7	821.5	598.2	487.8	474.9	469.2	465.2	462.0	457.9
22.5°	2269.5	1752.7	1034.4	703.0	488.6	446.6	426.5	408.8	394.2	384.6	379.7
25°	2295.3	1681.0	921.5	589.3	439.4	406.3	370.1	340.2	317.6	303.9	298.3
27.5°	2314.6	1603.6	820.7	493.4	405.5	359.6	312.0	276.5	253.2	241.1	236.2
30°	2328.4	1515.7	732.0	433.7	367.6	310.4	259.6	224.9	208.0	201.6	198.3
32.5°	2341.3	1418.1	648.2	405.5	332.2	265.2	217.7	191.1	180.6	172.5	170.1
35°	2373.5	1327.8	568.4	375.7	295.9	226.5	187.0	167.7	157.2	152.4	150.8
37.5°	2450.1	1260.9	491.8	345.1	259.6	195.9	163.7	150.0	140.3	135.4	133.8
40°	2573.4	1227.1	427.3	312.0	224.1	172.5	148.3	135.4	125.0	117.7	116.1
42.5°	2754.8	1231.9	382.1	279.0	195.9	154.0	133.8	118.5	107.2	100.8	99.2
45°	2974.9	1267.4	350.7	246.7	172.5	139.5	117.7	101.6	91.1	85.5	83.8
47.5°	3213.6	1324.6	324.9	217.7	154.0	125.8	101.6	84.7	75.8	70.9	70.1
50°	3465.1	1380.2	298.3	189.5	137.9	112.1	85.5	70.1	62.9	58.9	57.2
52.5°	3719.9	1444.7	274.1	163.7	124.2	95.9	70.9	57.2	51.6	48.4	46.8
55°	3994.0	1493.1	250.7	143.5	110.5	81.4	58.9	47.6	42.7	38.7	37.9
57.5°	4316.5	1568.1	226.5	124.2	94.3	67.7	48.4	37.9	33.9	29.8	29.0
60°	4751.8	1656.0	200.7	109.6	77.4	55.6	39.5	30.6	25.8	22.6	21.8
62.5°	5325.9	1753.5	168.5	95.9	62.9	45.1	31.4	24.2	18.5	14.5	14.5
65°	6053.9	1912.3	137.9	80.6	51.6	37.1	24.2	17.7	10.5	6.4	6.4
67.5°	6478.8	1939.8	111.3	66.1	41.9	31.4	20.2	12.1	3.2	0.8	0.0
69°	6342.5	1780.9	94.3	56.4	36.3	29.8	18.5	8.9	1.6	0.0	0.0
70°	6086.1	1628.6	83.0	50.0	33.1	28.2	17.7	6.4	1.6	0.0	0.0
72.5°	5029.2	1159.3	62.9	37.1	24.2	25.0	16.1	4.0	1.6	0.0	0.0
75°	3663.4	704.6	45.1	25.8	15.3	18.5	11.3	1.6	0.8	0.0	0.0
77.5°	2038.1	332.2	28.2	14.5	9.7	11.3	5.6	0.0	0.0	0.0	0.0
80°	661.9	90.3	12.9	8.1	5.6	6.4	2.4	0.0	0.0	0.0	0.0
82.5°	122.5	25.8	7.3	4.0	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	26.6	10.5	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	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)