

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: P317379

Luminaire Tested: **GAN-SA5D-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33787 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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

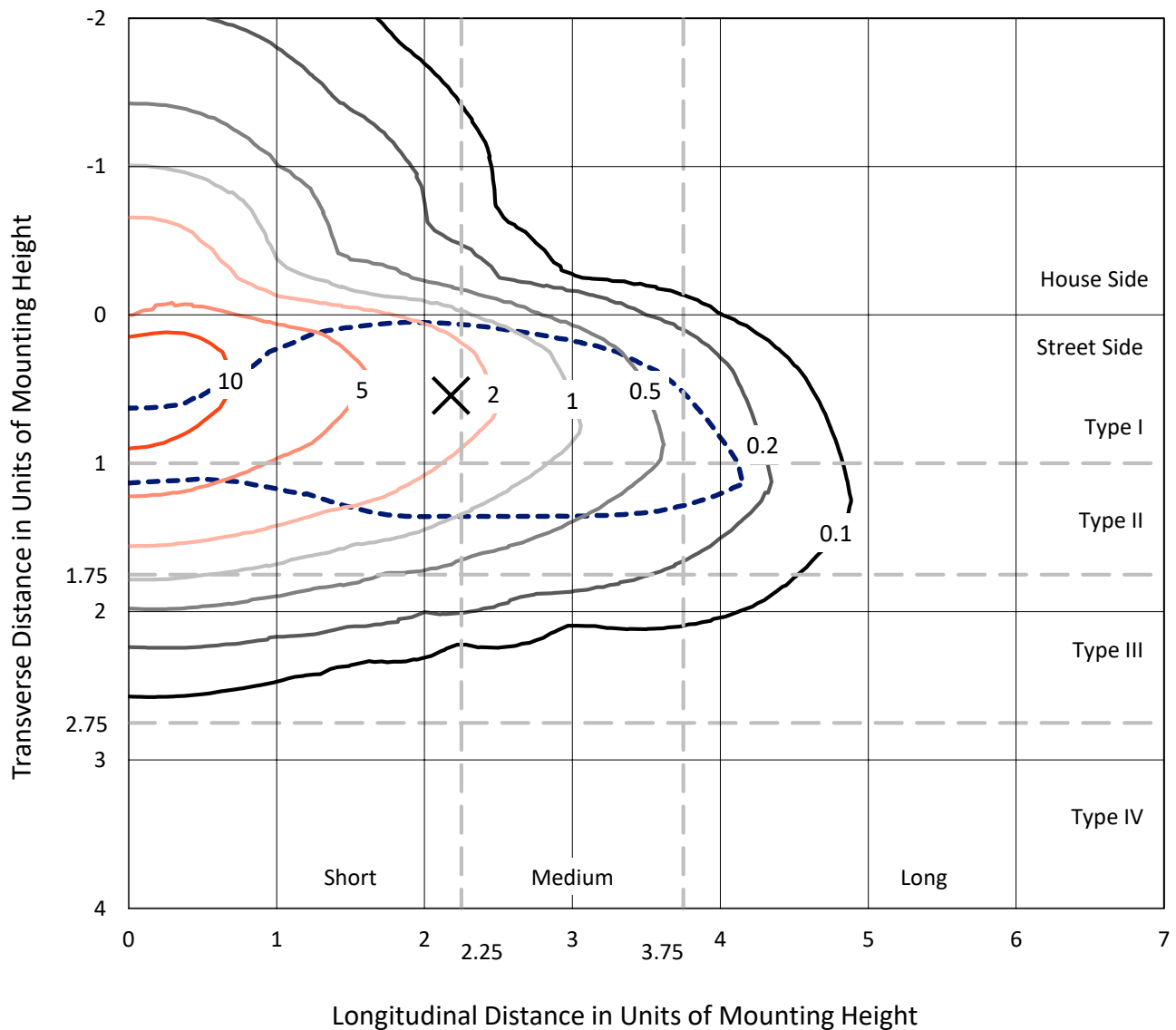


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Iso-Footcandle Lines of Horizontal Illumination

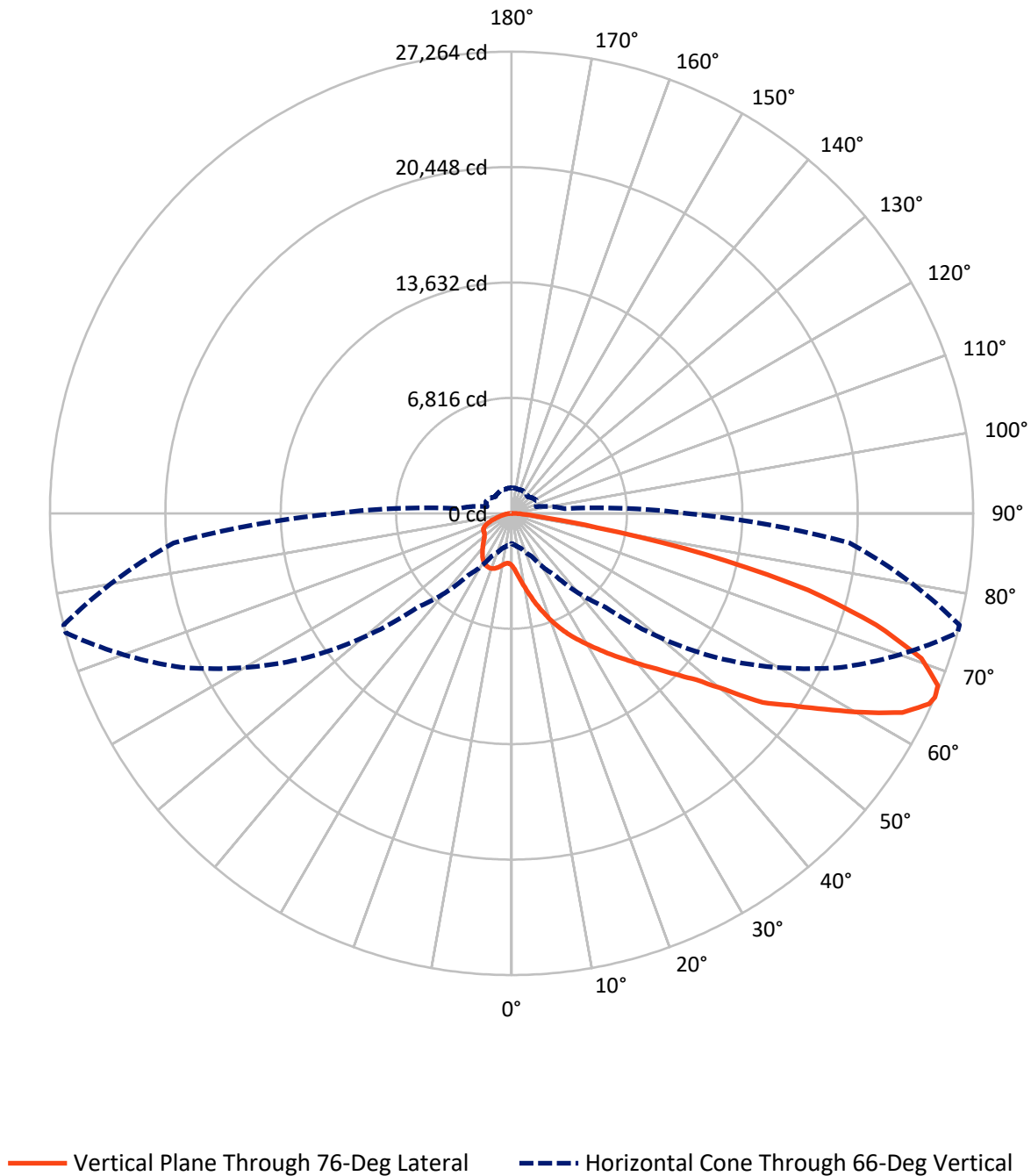
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5685.2	0.0	5685.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	28101.8	0.0	28101.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	33787.0	0.0	33787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.1	1.1
10°-20°	1473.4	4.4
20°-30°	2863.2	8.5
30°-40°	4673.4	13.8
40°-50°	6385.1	18.9
50°-60°	7437.3	22.0
60°-70°	6667.7	19.7
70°-80°	3369.6	10.0
80°-90°	544.1	1.6
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°	33787.0	100.0
0°-180°	33787.0	100.0

Coefficient of Utilization



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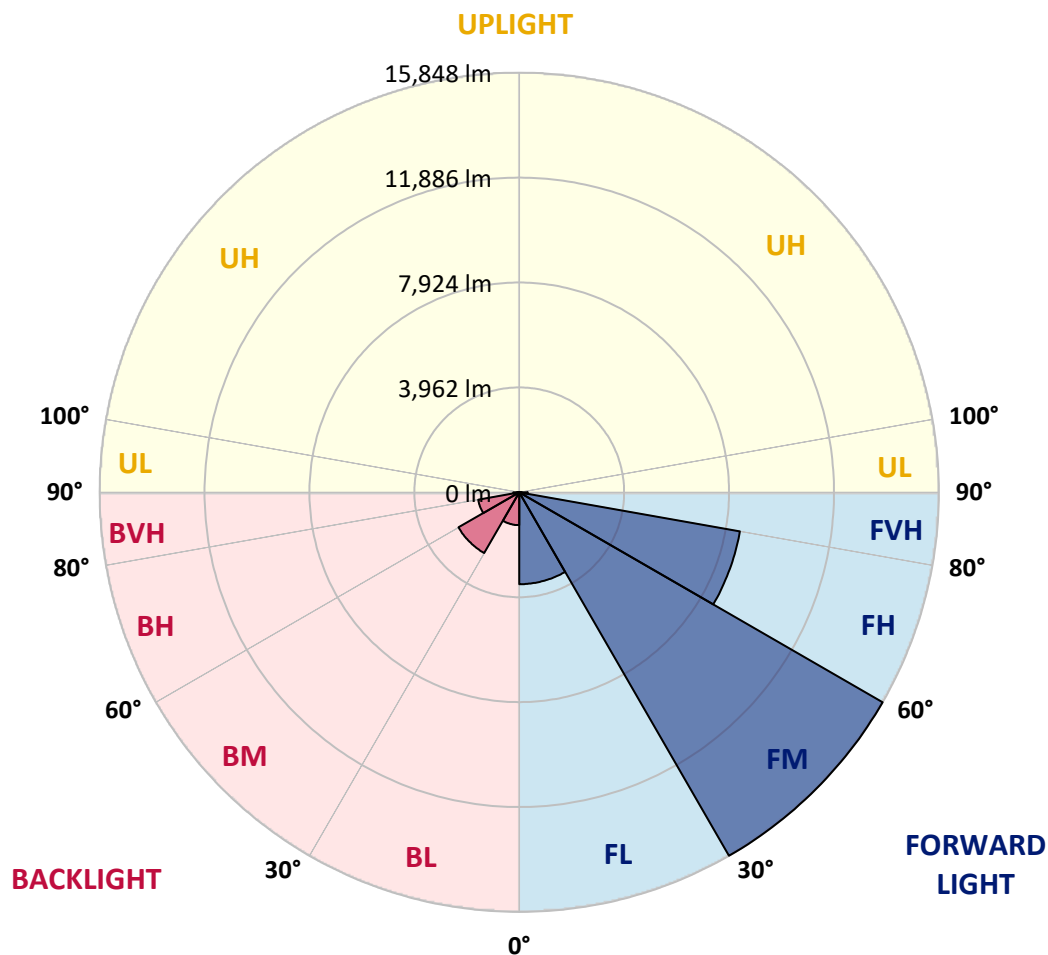
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3469.8	10.3			
FM	(30°-60°)	15848.4	46.9			
FH	(60°-80°)	8462.2	25.0			G4/12000
FVH	(80°-90°)	321.3	1.0			G3/500
BL	(0°-30°)	1240.0	3.7	B3/2500		
BM	(30°-60°)	2647.4	7.8	B3/5000		
BH	(60°-80°)	1575.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	222.8	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3085.5	3085.5	3085.5	3085.5	3085.5	3085.5	3085.5	3085.5	3085.5	3085.5	3085.5
2.5°	4096.1	4034.1	4028.4	3937.8	3917.1	3743.9	3616.6	3483.5	3332.1	3302.3	3183.0
5°	5261.4	5255.7	5176.6	5028.6	4912.7	4616.8	4324.3	4014.6	3675.1	3620.0	3351.6
7.5°	6309.8	6300.6	6239.9	6080.4	5912.9	5549.3	5131.8	4656.9	4106.4	4024.9	3579.9
10°	7105.9	7102.4	7081.8	6964.8	6822.5	6473.8	6012.7	5364.7	4607.6	4496.4	3865.5
12.5°	7720.7	7727.6	7741.3	7700.0	7632.3	7335.3	6862.7	6114.8	5142.1	5032.0	4183.2
15°	8137.0	8157.7	8228.8	8287.3	8322.9	8140.5	7682.8	6882.2	5740.9	5609.0	4535.4
17.5°	8346.9	8369.9	8492.6	8669.3	8832.1	8813.8	8450.2	7614.0	6315.6	6188.2	4913.9
20°	8528.2	8545.4	8683.0	8895.2	9183.1	9310.5	9106.3	8318.3	6945.3	6793.9	5315.3
22.5°	9053.5	9075.3	9116.6	9237.0	9491.7	9725.7	9627.0	8984.7	7522.2	7381.1	5696.2
25°	10067.5	10093.9	10004.4	9902.3	9950.5	10113.4	10131.7	9592.6	8107.2	7947.8	6105.6
27.5°	11289.1	11326.9	11174.4	10911.7	10682.3	10619.2	10597.4	10090.4	8665.8	8481.2	6510.6
30°	12485.4	12550.8	12352.4	12011.7	11590.8	11294.8	11075.7	10577.9	9216.4	9039.8	6892.5
32.5°	13654.3	13627.9	13340.0	13007.3	12514.1	12143.6	11613.7	11101.0	9835.8	9632.8	7272.2
35°	14454.9	14464.1	14196.8	13802.2	13331.9	13047.5	12334.0	11665.3	10467.8	10280.8	7703.5
37.5°	15136.2	15093.8	14791.0	14422.8	14017.9	13896.3	13177.1	12287.0	11152.6	10948.4	8162.3
40°	15363.3	15314.0	15115.6	14850.6	14526.0	14515.7	14107.3	12991.3	11926.8	11725.0	8679.6
42.5°	15225.7	15162.6	15081.2	15008.9	14909.1	14955.0	14981.4	13817.1	12777.9	12552.0	9278.3
45°	14717.6	14622.4	14679.7	14836.9	15053.6	15312.9	15770.5	14731.3	13731.1	13541.9	9981.5
47.5°	13936.4	13850.4	14029.3	14365.4	14955.0	15611.1	16517.3	15740.7	14869.0	14680.9	10982.8
50°	12837.6	12862.8	13118.6	13730.0	14621.2	15748.7	17437.2	17077.0	16523.0	16347.5	12348.9
52.5°	11034.4	11039.0	11759.4	12763.0	14029.3	15677.6	17947.6	18784.9	18781.5	18569.3	13649.7
55°	9359.8	9461.9	10031.9	11365.9	13070.4	15393.2	18304.3	19615.4	20264.6	20015.7	14862.1
57.5°	7724.1	7783.8	8324.0	9663.7	11702.0	14635.0	18670.2	20612.2	21973.7	21816.5	16369.3
60°	5863.6	5955.4	6514.0	7751.6	9951.6	13289.5	18704.6	21652.5	24016.5	23858.3	18052.0
62.5°	3805.9	3964.1	4487.2	5646.8	7834.2	11354.5	17906.3	22332.7	25952.7	25896.5	19545.4
65°	2187.4	2306.7	2670.3	3565.0	5404.8	8925.1	16008.0	22071.2	27144.5	27112.4	20104.0
66°	1787.1	1861.6	2140.4	2786.1	4459.7	7837.7	14904.5	21519.5	27262.6	27263.8	20039.8
67.5°	1429.2	1462.5	1587.5	1994.7	3290.8	6212.3	12932.8	20302.5	27115.8	27156.0	19625.7
70°	1182.6	1199.8	1238.8	1337.4	1796.3	3746.2	9179.7	17140.1	25641.9	25672.9	18009.5
72.5°	1061.0	1071.3	1086.2	1100.0	1267.5	2093.3	5606.7	13711.6	22481.8	22522.0	15546.9
75°	961.2	966.9	964.7	965.8	1063.3	1334.0	2897.4	10237.3	18178.2	18097.9	11909.6
77.5°	844.2	850.0	838.5	840.8	940.6	1025.4	1441.8	7166.7	12267.5	11700.9	6710.1
80°	713.5	718.0	713.5	721.5	819.0	774.2	838.5	4031.8	5424.3	5130.7	2385.8
82.5°	539.1	558.6	572.4	604.5	674.5	550.6	560.9	1570.3	1651.7	1572.6	731.8
85°	236.3	287.9	431.3	462.3	507.0	330.3	368.2	640.0	672.2	651.5	266.1
87.5°	61.9	67.7	213.3	268.4	281.0	149.1	191.6	291.3	307.4	291.3	88.3
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°	3085.5	3085.5	3085.5	3085.5	3085.5	3085.5	3085.5	3085.5	3085.5	3085.5	3085.5
2.5°	3119.9	3063.7	2962.8	2873.3	2805.6	2759.8	2713.9	2690.9	2677.2	2663.4	2665.7
5°	3219.7	3106.2	2933.0	2810.2	2741.4	2697.8	2674.9	2665.7	2660.0	2646.2	2646.2
7.5°	3370.0	3209.4	2970.8	2844.6	2790.7	2757.5	2743.7	2739.1	2732.2	2716.2	2718.5
10°	3559.2	3334.4	3050.0	2927.2	2877.9	2841.2	2821.7	2814.8	2802.2	2783.8	2786.1
12.5°	3781.8	3489.3	3154.3	3025.9	2966.2	2916.9	2884.8	2865.3	2843.5	2819.4	2820.6
15°	4024.9	3657.9	3266.7	3114.2	3032.8	2963.9	2912.3	2879.0	2844.6	2814.8	2813.7
17.5°	4271.5	3820.8	3352.8	3162.4	3052.3	2961.6	2891.7	2840.1	2797.6	2760.9	2757.5
20°	4537.7	3967.6	3400.9	3157.8	3015.5	2907.7	2814.8	2750.6	2703.6	2666.8	2661.1
22.5°	4808.4	4105.2	3409.0	3110.7	2934.1	2802.2	2704.7	2633.6	2585.4	2547.6	2533.8
25°	5056.1	4211.9	3375.7	3020.1	2820.6	2678.3	2583.1	2510.9	2471.9	2427.1	2413.4
27.5°	5282.1	4286.5	3309.2	2904.3	2693.2	2553.3	2463.8	2401.9	2359.4	2325.0	2313.6
30°	5485.1	4326.6	3200.2	2766.6	2562.5	2435.1	2359.4	2317.0	2280.3	2236.7	2228.7
32.5°	5677.8	4326.6	3060.3	2616.4	2432.9	2330.8	2286.0	2259.7	2218.4	2175.9	2164.4
35°	5870.5	4300.2	2895.1	2459.2	2313.6	2256.2	2253.9	2222.9	2159.9	2102.5	2087.6
37.5°	6073.5	4246.3	2709.3	2312.4	2216.1	2222.9	2242.4	2173.6	2084.2	2002.7	1980.9
40°	6302.9	4171.8	2516.6	2185.1	2134.6	2208.0	2211.5	2102.5	1928.2	1853.6	1834.1
42.5°	6572.5	4097.2	2337.7	2072.7	2070.4	2163.3	2153.0	1948.8	1844.4	1806.6	1796.3
45°	6926.9	4054.8	2167.9	1966.0	2019.9	2091.0	2053.2	1863.9	1820.3	1798.5	1789.4
47.5°	7485.5	4076.6	2011.9	1881.1	1969.5	2018.8	1867.4	1829.5	1798.5	1772.2	1763.0
50°	8185.2	4063.9	1885.7	1822.6	1912.1	1943.1	1783.6	1784.8	1768.7	1738.9	1725.1
52.5°	8711.7	3965.3	1804.3	1789.4	1861.6	1808.9	1730.9	1741.2	1733.2	1689.6	1674.7
55°	9219.8	3880.4	1763.0	1776.8	1824.9	1641.4	1668.9	1694.2	1686.1	1643.7	1636.8
57.5°	9851.9	3864.3	1737.8	1780.2	1794.0	1557.7	1609.3	1642.5	1636.8	1618.5	1615.0
60°	10626.1	3868.9	1714.8	1785.9	1759.5	1495.7	1553.1	1595.5	1599.0	1595.5	1593.2
62.5°	11051.6	3743.9	1657.5	1769.9	1698.8	1441.8	1494.6	1556.5	1557.7	1564.6	1563.4
65°	10690.3	3370.0	1550.8	1713.7	1596.7	1397.1	1444.1	1511.8	1494.6	1525.6	1525.6
66°	10339.3	3154.3	1498.0	1677.0	1553.1	1379.9	1428.1	1488.8	1467.1	1509.5	1509.5
67.5°	9622.4	2790.7	1402.8	1599.0	1491.1	1355.8	1409.7	1451.0	1421.2	1484.3	1479.7
70°	8312.5	2158.7	1211.3	1422.3	1389.1	1320.2	1384.5	1375.3	1331.7	1428.1	1409.7
72.5°	7008.4	1640.3	972.7	1190.6	1234.2	1275.5	1348.9	1278.9	1223.9	1291.6	1251.4
75°	5438.1	1233.1	768.5	925.7	1042.7	1205.5	1306.5	1167.7	1088.5	1081.7	1059.9
77.5°	2939.8	846.5	609.1	706.6	828.2	1118.4	1277.8	1048.4	929.1	901.6	884.4
80°	1164.2	550.6	442.8	535.7	579.3	992.2	1209.0	909.6	766.2	738.7	712.3
82.5°	480.6	325.8	285.6	359.0	377.4	848.8	1085.1	745.6	591.9	819.0	869.4
85°	206.5	178.9	169.8	185.8	213.3	595.3	863.7	568.9	638.9	570.1	453.1
87.5°	61.9	75.7	72.3	71.1	78.0	142.2	460.0	316.6	469.1	177.8	133.1
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)