

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: P318433

Luminaire Tested: **GAN-SA9A-750-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41670 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

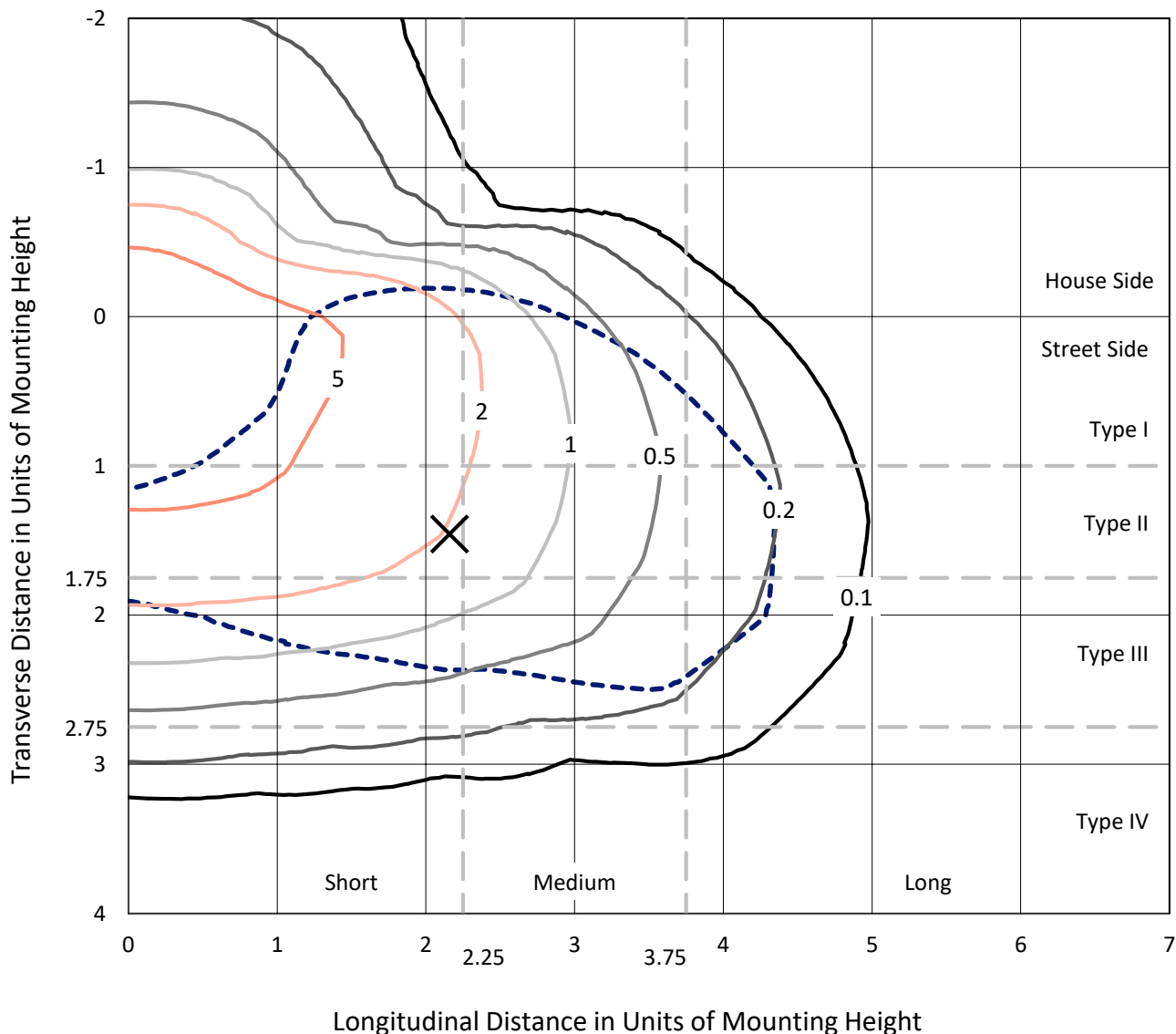
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

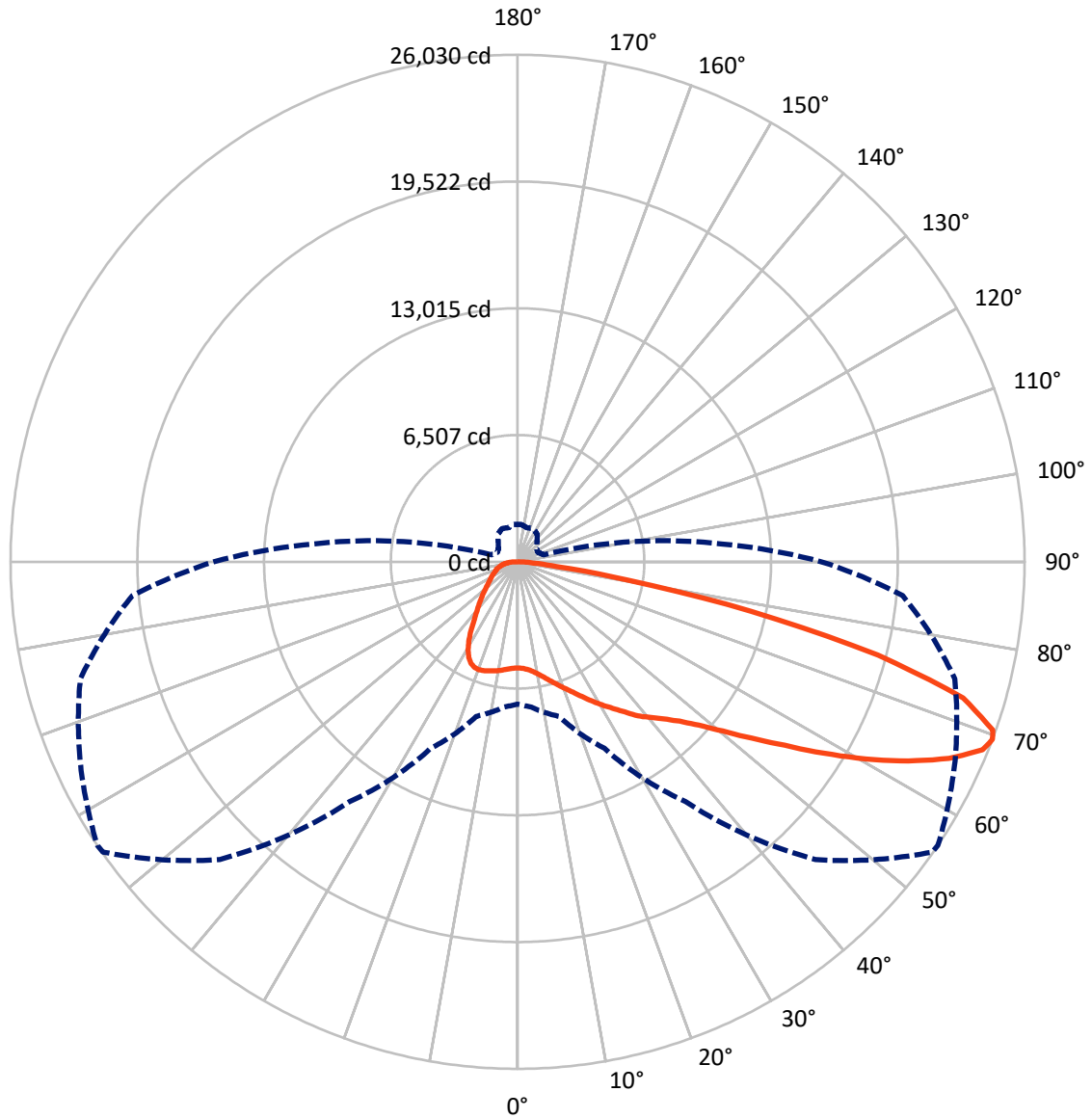
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9279.8	0.0	9279.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	32390.2	0.0	32390.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	41670.0	0.0	41670.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.0	1.3
10°-20°	1720.5	4.1
20°-30°	3003.4	7.2
30°-40°	4314.2	10.4
40°-50°	5970.7	14.3
50°-60°	8747.8	21.0
60°-70°	10665.3	25.6
70°-80°	5896.4	14.2
80°-90°	816.7	2.0
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°	41670.0	100.0
0°-180°	41670.0	100.0

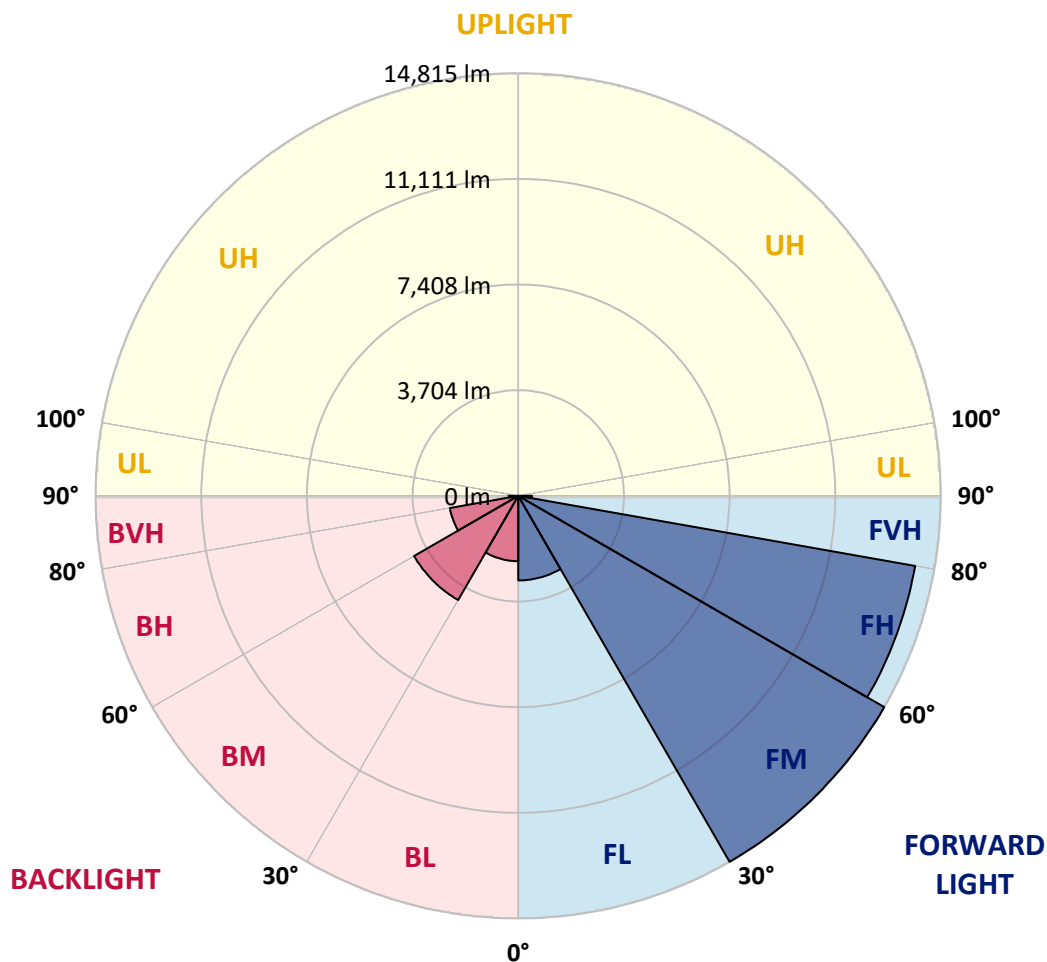


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2965.7	7.1			
FM (30°-60°)	14815.2	35.6			
FH (60°-80°)	14128.2	33.9			G5
FVH (80°-90°)	481.0	1.2			G3/500
BL (0°-30°)	2293.3	5.5	B3/2500		
BM (30°-60°)	4217.5	10.1	B3/5000		
BH (60°-80°)	2433.5	5.8	B3/2500		G3/2500
BVH (80°-90°)	335.6	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5447.7	5447.7	5447.7	5447.7	5447.7	5447.7	5447.7	5447.7	5447.7	5447.7	5447.7
2.5°	5482.2	5487.9	5483.6	5495.1	5482.2	5490.8	5483.6	5483.6	5479.3	5466.4	5452.0
5°	5568.3	5579.8	5572.6	5584.1	5568.3	5571.2	5558.3	5558.3	5545.3	5518.1	5489.4
7.5°	5703.2	5716.2	5710.4	5721.9	5700.4	5700.4	5683.1	5681.7	5655.9	5611.4	5578.4
10°	5864.0	5881.2	5875.5	5892.7	5875.5	5881.2	5864.0	5864.0	5829.6	5766.4	5724.8
12.5°	6098.0	6119.5	6103.7	6102.3	6095.1	6106.6	6092.3	6089.4	6057.8	5971.7	5914.3
15°	6410.9	6433.9	6400.9	6398.0	6357.8	6353.5	6353.5	6349.2	6329.1	6225.8	6131.0
17.5°	6771.3	6778.4	6749.7	6703.8	6652.1	6619.1	6614.8	6626.3	6626.3	6505.7	6355.0
20°	7124.4	7137.3	7114.3	7062.7	6996.6	6947.8	6913.4	6936.3	6934.9	6791.4	6577.5
22.5°	7509.1	7539.2	7504.8	7438.8	7361.2	7306.7	7246.4	7266.5	7267.9	7091.4	6795.7
25°	8007.2	7979.9	7958.4	7865.1	7754.6	7698.6	7642.6	7662.7	7657.0	7414.4	7021.0
27.5°	8447.9	8453.7	8425.0	8325.9	8198.1	8074.7	8071.8	8084.7	8063.2	7750.3	7233.5
30°	8960.4	8963.3	8923.1	8834.1	8694.8	8535.5	8498.2	8519.7	8473.8	8068.9	7457.4
32.5°	9470.0	9484.4	9439.9	9332.2	9220.2	9026.4	8951.8	8966.1	8851.3	8394.8	7688.5
35°	9916.4	9936.5	9922.2	9850.4	9728.4	9561.9	9472.9	9464.3	9322.1	8793.9	7994.3
37.5°	10371.5	10390.2	10374.4	10314.1	10265.3	10088.7	10041.3	10041.3	9794.4	9201.6	8383.3
40°	10839.5	10868.2	10849.5	10766.3	10724.6	10644.2	10530.8	10503.6	10236.6	9691.1	9017.8
42.5°	11274.4	11311.7	11386.4	11337.6	11252.9	11264.4	11036.1	11021.8	10826.5	10414.6	9814.5
45°	11891.7	11946.2	12072.6	12035.2	12018.0	11954.9	11683.5	11670.6	11596.0	11387.8	10803.6
47.5°	12564.9	12639.6	12867.8	12875.0	13060.2	12941.0	12572.1	12527.6	12544.8	12553.5	12010.8
50°	13185.1	13266.9	13641.6	13818.1	14254.5	14280.4	13690.4	13650.2	13717.6	13915.7	13417.6
52.5°	13680.3	13783.7	14251.7	14797.1	15545.0	15757.5	15067.0	15036.9	15087.1	15428.8	15008.2
55°	14043.5	14155.5	14665.1	15658.4	16852.8	17227.4	16651.8	16623.1	16654.7	17089.6	16737.9
57.5°	14128.2	14155.5	14894.8	16238.4	17956.7	18856.7	18591.2	18533.7	18378.7	18757.7	18647.2
60°	13730.6	13839.7	14705.3	16442.2	18810.8	20463.1	20618.1	20546.3	20111.4	20421.4	20332.4
62.5°	12923.8	13119.0	13997.6	16132.2	19145.3	21775.1	22606.3	22520.1	21770.8	21971.8	21544.0
65°	11606.0	11689.3	12612.3	15062.7	18720.4	22614.9	24379.1	24336.0	23392.9	23078.5	21767.9
67.5°	9248.9	9405.4	10189.2	12827.6	16982.0	22515.8	25750.0	25745.7	24452.3	23489.1	20974.1
69°	7306.7	7468.9	8215.4	10566.7	15026.8	21610.0	25979.7	26029.9	24750.9	23239.3	19840.1
70°	5825.3	6013.3	6525.8	8900.1	13291.3	20415.7	25788.8	25879.2	24693.5	22827.3	18793.6
72.5°	2479.1	2631.3	2995.9	4587.9	8100.5	15245.0	23579.5	23921.2	23362.8	20892.3	15532.1
75°	1082.4	1129.7	1294.8	1870.5	3595.9	8297.2	18472.0	19103.6	19976.4	17659.5	11570.1
77.5°	792.4	812.5	902.9	1098.2	1613.5	3133.7	11878.8	12246.3	14406.7	12850.6	7097.1
80°	613.0	627.3	697.7	806.8	1053.7	1267.5	5417.6	5733.4	8100.5	6600.4	2955.7
82.5°	488.1	498.1	546.9	594.3	727.8	768.0	1798.7	1995.3	2990.1	1823.1	782.3
85°	453.6	465.1	482.3	433.5	466.5	450.7	778.0	813.9	902.9	716.3	327.3
87.5°	205.3	242.6	478.0	337.3	248.3	198.1	318.7	333.0	374.7	376.1	145.0
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°	5447.7	5447.7	5447.7	5447.7	5447.7	5447.7	5447.7	5447.7	5447.7	5447.7	5447.7
2.5°	5460.6	5456.3	5463.5	5446.3	5467.8	5466.4	5459.2	5462.1	5476.4	5475.0	5476.4
5°	5493.7	5490.8	5499.4	5486.5	5512.3	5520.9	5522.4	5535.3	5551.1	5555.4	5555.4
7.5°	5576.9	5576.9	5581.2	5564.0	5581.2	5579.8	5572.6	5585.5	5601.3	5602.8	5601.3
10°	5720.5	5721.9	5714.7	5670.2	5655.9	5617.1	5581.2	5582.7	5602.8	5618.5	5622.9
12.5°	5901.3	5895.6	5864.0	5782.2	5721.9	5643.0	5605.6	5604.2	5624.3	5637.2	5641.5
15°	6108.1	6092.3	6010.4	5876.9	5770.7	5693.2	5632.9	5618.5	5607.1	5592.7	5594.1
17.5°	6303.3	6267.4	6131.0	5945.8	5833.9	5730.5	5614.2	5520.9	5456.3	5419.0	5407.5
20°	6501.4	6431.0	6234.4	6010.4	5868.3	5680.3	5456.3	5266.9	5149.1	5094.6	5084.5
22.5°	6682.3	6568.9	6330.6	6077.9	5841.1	5510.9	5159.2	4883.6	4719.9	4646.7	4652.5
25°	6858.8	6700.9	6431.0	6125.3	5703.2	5212.3	4745.8	4407.0	4217.5	4135.7	4132.8
27.5°	7013.9	6834.4	6540.1	6086.5	5446.3	4787.4	4256.3	3926.1	3768.2	3697.8	3686.4
30°	7191.9	7002.4	6685.1	5938.7	5070.2	4296.5	3778.2	3545.7	3433.7	3363.4	3350.5
32.5°	7408.6	7230.6	6804.3	5670.2	4589.3	3784.0	3405.0	3242.8	3140.9	3061.9	3047.6
35°	7724.4	7532.1	6834.4	5285.5	4061.0	3379.2	3130.8	2964.3	2826.5	2724.6	2714.5
37.5°	8120.6	7909.6	6765.5	4787.4	3548.6	3116.5	2902.6	2697.3	2517.9	2374.3	2351.4
40°	8692.0	8373.3	6574.6	4213.2	3171.0	2914.1	2680.1	2446.1	2223.6	2055.6	2022.6
42.5°	9378.1	8917.3	6281.8	3641.9	2894.0	2708.8	2459.0	2169.0	1956.6	1837.4	1820.2
45°	10250.9	9482.9	5875.5	3142.3	2621.2	2503.5	2220.7	1953.7	1821.7	1734.1	1719.7
47.5°	11247.1	10117.4	5449.2	2736.1	2390.1	2311.2	2029.8	1857.5	1752.7	1683.8	1670.9
50°	12471.6	10833.7	4997.0	2403.0	2157.6	2080.0	1939.4	1804.4	1721.2	1668.1	1655.1
52.5°	13852.6	11641.9	4671.1	2140.3	1965.2	1909.2	1892.0	1775.7	1708.2	1668.1	1655.1
55°	15339.8	12464.5	4319.4	1919.3	1798.7	1814.5	1860.4	1778.6	1732.6	1683.8	1665.2
57.5°	16828.4	13314.3	3927.5	1732.6	1666.6	1744.1	1838.9	1784.3	1745.6	1698.2	1681.0
60°	18005.5	13852.6	3320.3	1576.2	1561.8	1666.6	1787.2	1741.3	1691.0	1692.5	1689.6
62.5°	18555.3	13823.9	2649.9	1436.9	1457.0	1561.8	1703.9	1673.8	1632.2	1688.1	1692.5
65°	18246.6	13134.8	2062.8	1310.6	1345.1	1452.7	1617.8	1640.8	1655.1	1762.8	1777.1
67.5°	16951.8	11794.1	1597.7	1200.1	1243.1	1378.1	1626.4	1787.2	1805.9	1919.3	1917.8
69°	15612.5	10536.6	1388.1	1142.7	1192.9	1396.7	1738.4	1880.5	1810.2	1930.7	1913.5
70°	14489.9	9541.8	1276.2	1103.9	1169.9	1429.8	1813.0	1879.1	1788.6	1892.0	1863.3
72.5°	11159.6	6864.6	1082.4	1032.1	1092.4	1368.0	1834.6	1837.4	1738.4	1758.5	1709.7
75°	7654.1	4338.1	944.6	934.5	974.7	1233.1	1765.7	1755.6	1607.8	1579.1	1538.9
77.5°	4220.4	2203.5	802.4	841.2	868.5	1092.4	1604.9	1590.5	1468.5	1408.2	1393.9
80°	1627.9	964.7	677.6	747.9	765.1	946.0	1406.8	1393.9	1292.0	1214.4	1192.9
82.5°	614.4	505.3	559.8	647.4	641.7	780.9	1191.5	1184.3	1085.2	971.8	937.4
85°	284.2	302.9	443.6	534.0	492.4	578.5	953.2	966.1	845.5	710.6	710.6
87.5°	120.6	169.4	314.4	403.4	331.6	390.5	699.1	667.5	613.0	424.9	399.1
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)