

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: P318393

Luminaire Tested: **GAN-SA9A-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318393
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-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41671 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

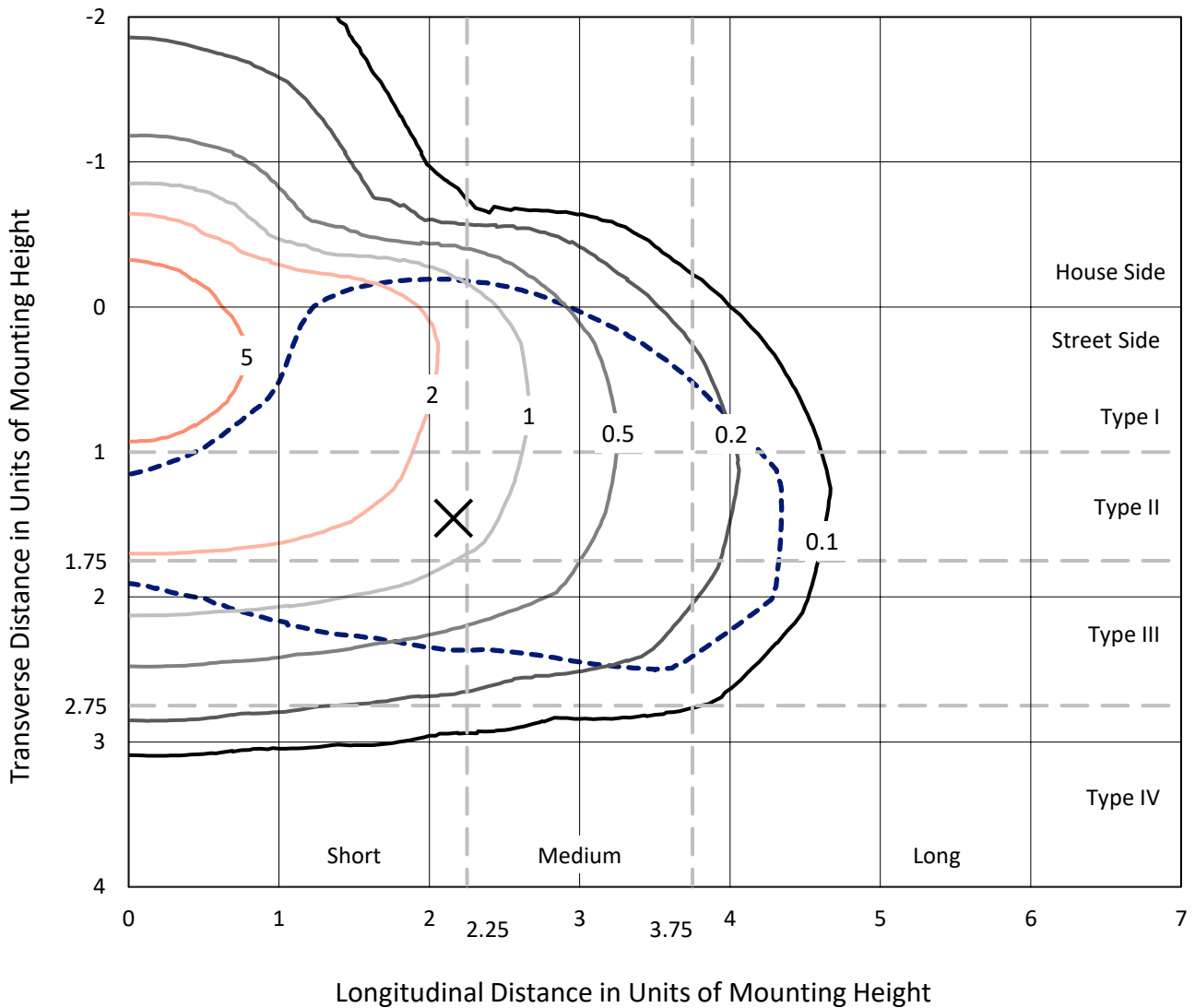
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

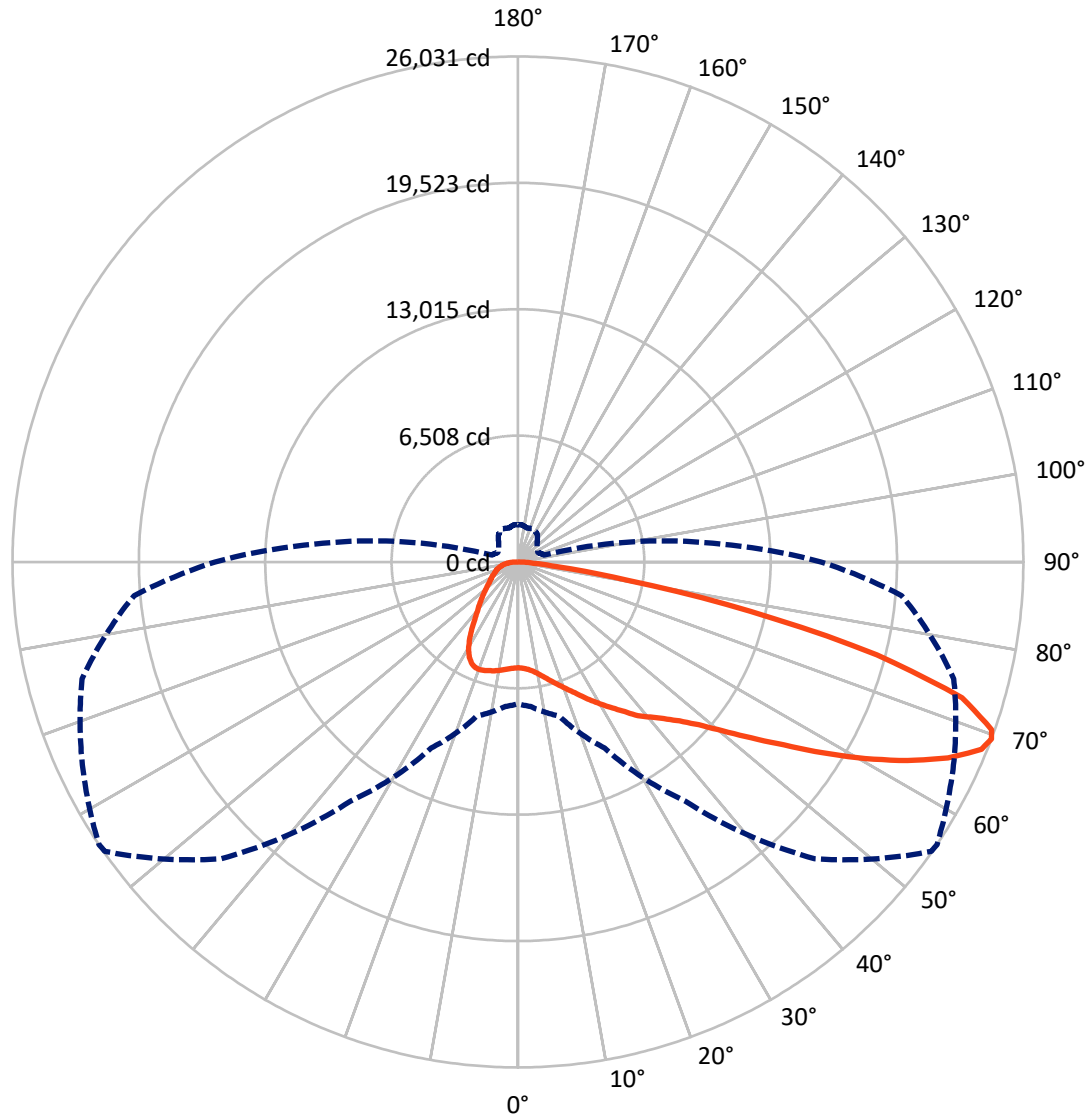
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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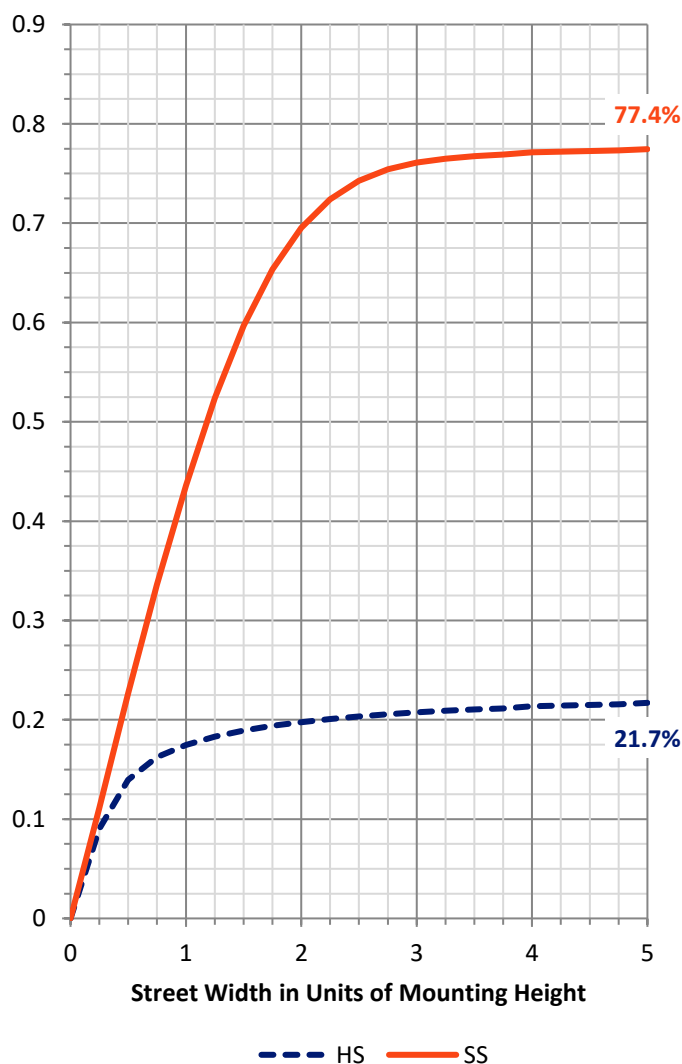
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9280.1	0.0	9280.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	32390.9	0.0	32390.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	41671.0	0.0	41671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.1	1.3
10°-20°	1720.6	4.1
20°-30°	3003.4	7.2
30°-40°	4314.3	10.4
40°-50°	5970.8	14.3
50°-60°	8748.0	21.0
60°-70°	10665.5	25.6
70°-80°	5896.6	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°	41671.0	100.0
0°-180°	41671.0	100.0

Coefficient of Utilization



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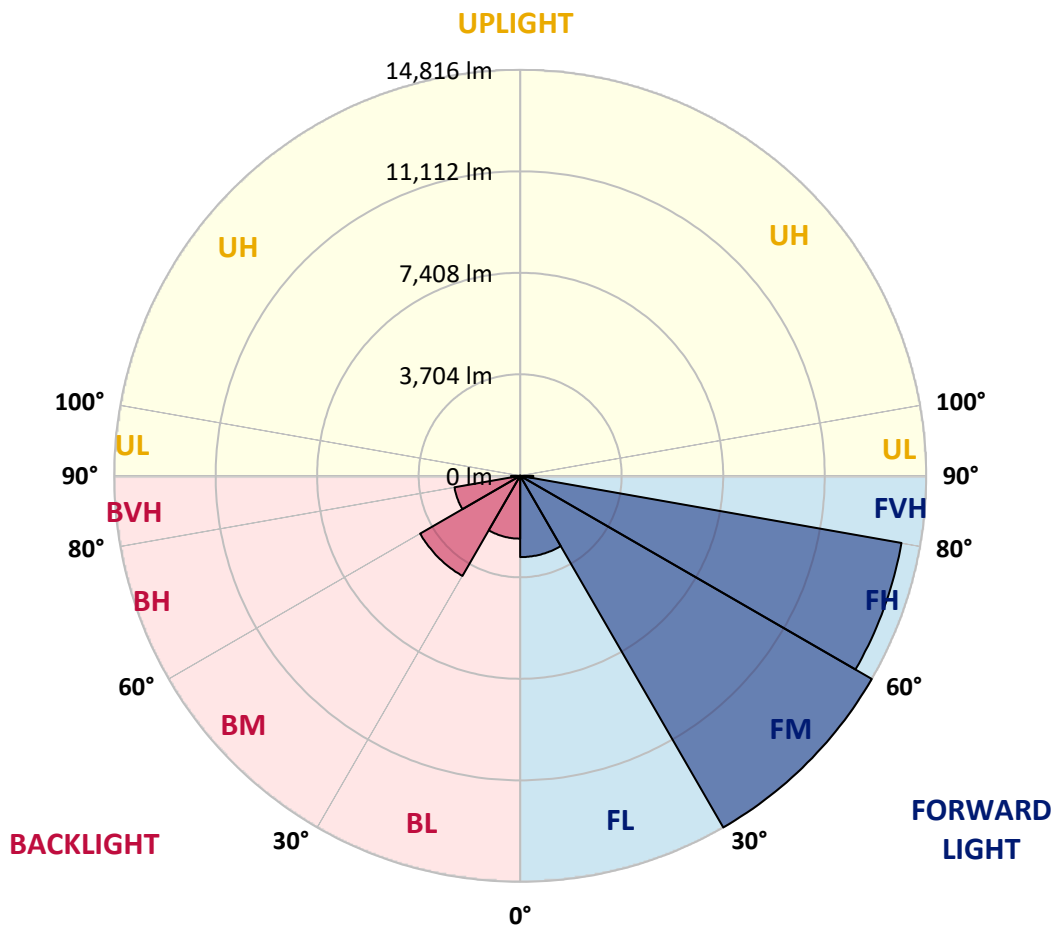
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2965.7	7.1			
FM (30°-60°)	14815.6	35.6			
FH (60°-80°)	14128.6	33.9			G5
FVH (80°-90°)	481.0	1.2			G3/500
BL (0°-30°)	2293.3	5.5	B3/2500		
BM (30°-60°)	4217.6	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°	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9
2.5°	5482.3	5488.1	5483.7	5495.2	5482.3	5490.9	5483.7	5483.7	5479.4	5466.5	5452.2
5°	5568.4	5579.9	5572.7	5584.2	5568.4	5571.3	5558.4	5558.4	5545.5	5518.2	5489.5
7.5°	5703.4	5716.3	5710.6	5722.0	5700.5	5700.5	5683.3	5681.8	5656.0	5611.5	5578.5
10°	5864.2	5881.4	5875.6	5892.9	5875.6	5881.4	5864.2	5864.2	5829.7	5766.5	5724.9
12.5°	6098.2	6119.7	6103.9	6102.5	6095.3	6106.8	6092.4	6089.5	6058.0	5971.8	5914.4
15°	6411.1	6434.1	6401.1	6398.2	6358.0	6353.7	6353.7	6349.4	6329.3	6225.9	6131.2
17.5°	6771.4	6778.6	6749.9	6703.9	6652.3	6619.3	6614.9	6626.4	6626.4	6505.8	6355.1
20°	7124.6	7137.5	7114.5	7062.8	6996.8	6948.0	6913.5	6936.5	6935.1	6791.5	6577.6
22.5°	7509.3	7539.4	7505.0	7438.9	7361.4	7306.9	7246.6	7266.7	7268.1	7091.5	6795.8
25°	8007.4	7980.1	7958.6	7865.3	7754.8	7698.8	7642.8	7662.9	7657.1	7414.5	7021.2
27.5°	8448.1	8453.9	8425.2	8326.1	8198.3	8074.9	8072.0	8084.9	8063.4	7750.5	7233.7
30°	8960.6	8963.5	8923.3	8834.3	8695.0	8535.7	8498.4	8519.9	8474.0	8069.1	7457.6
32.5°	9470.2	9484.6	9440.1	9332.4	9220.4	9026.6	8952.0	8966.4	8851.5	8395.0	7688.7
35°	9916.7	9936.8	9922.4	9850.6	9728.6	9562.1	9473.1	9464.5	9322.4	8794.1	7994.5
37.5°	10371.7	10390.4	10374.6	10314.3	10265.5	10088.9	10041.6	10041.6	9794.7	9201.8	8383.5
40°	10839.7	10868.4	10849.8	10766.5	10724.9	10644.5	10531.1	10503.8	10236.8	9691.3	9018.0
42.5°	11274.7	11312.0	11386.7	11337.9	11253.2	11264.6	11036.4	11022.0	10826.8	10414.8	9814.8
45°	11892.0	11946.5	12072.9	12035.5	12018.3	11955.1	11683.8	11670.9	11596.3	11388.1	10803.8
47.5°	12565.2	12639.9	12868.1	12875.3	13060.5	12941.3	12572.4	12527.9	12545.1	12553.8	12011.1
50°	13185.4	13267.2	13641.9	13818.5	14254.9	14280.7	13690.7	13650.5	13718.0	13916.1	13417.9
52.5°	13680.7	13784.0	14252.0	14797.5	15545.4	15757.9	15067.4	15037.2	15087.5	15429.1	15008.5
55°	14043.8	14155.8	14665.4	15658.8	16853.2	17227.9	16652.2	16623.5	16655.1	17090.0	16738.3
57.5°	14128.5	14155.8	14895.1	16238.8	17957.1	18857.2	18591.6	18534.2	18379.2	18758.1	18647.6
60°	13730.9	13840.0	14705.6	16442.6	18811.3	20463.6	20618.6	20546.8	20111.8	20421.9	20332.9
62.5°	12924.1	13119.4	13997.9	16132.5	19145.7	21775.6	22606.8	22520.7	21771.3	21972.3	21544.5
65°	11606.3	11689.6	12612.6	15063.1	18720.8	22615.4	24379.7	24336.6	23393.5	23079.1	21768.5
67.5°	9249.2	9405.6	10189.4	12827.9	16982.4	22516.4	25750.6	25746.3	24452.9	23489.7	20974.6
69°	7306.9	7469.1	8215.6	10567.0	15027.2	21610.5	25980.3	26030.6	24751.5	23239.9	19840.5
70°	5825.4	6013.5	6525.9	8900.3	13291.6	20416.2	25789.4	25879.8	24694.1	22827.9	18794.0
72.5°	2479.2	2631.3	2996.0	4588.0	8100.7	15245.4	23580.1	23921.8	23363.3	20892.8	15532.5
75°	1082.4	1129.8	1294.9	1870.5	3596.0	8297.4	18472.5	19104.1	19976.9	17660.0	11570.4
77.5°	792.4	812.5	903.0	1098.2	1613.5	3133.8	11879.1	12246.6	14407.0	12850.9	7097.3
80°	613.0	627.3	697.7	806.8	1053.7	1267.6	5417.7	5733.5	8100.7	6600.6	2955.8
82.5°	488.1	498.1	546.9	594.3	727.8	768.0	1798.7	1995.4	2990.2	1823.1	782.4
85°	453.6	465.1	482.3	433.5	466.5	450.8	778.1	813.9	903.0	716.3	327.3
87.5°	205.3	242.6	478.0	337.4	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°	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9	5447.9
2.5°	5460.8	5456.5	5463.6	5446.4	5468.0	5466.5	5459.3	5462.2	5476.6	5475.1	5476.6
5°	5493.8	5490.9	5499.5	5486.6	5512.5	5521.1	5522.5	5535.4	5551.2	5555.5	5555.5
7.5°	5577.1	5577.1	5581.4	5564.1	5581.4	5579.9	5572.7	5585.7	5601.5	5602.9	5601.5
10°	5720.6	5722.0	5714.9	5670.4	5656.0	5617.2	5581.4	5582.8	5602.9	5618.7	5623.0
12.5°	5901.5	5895.7	5864.2	5782.3	5722.0	5643.1	5605.8	5604.3	5624.4	5637.3	5641.7
15°	6108.2	6092.4	6010.6	5877.1	5770.9	5693.3	5633.0	5618.7	5607.2	5592.8	5594.3
17.5°	6303.4	6267.5	6131.2	5946.0	5834.0	5730.7	5614.4	5521.1	5456.5	5419.1	5407.7
20°	6501.5	6431.2	6234.5	6010.6	5868.5	5680.4	5456.5	5267.0	5149.3	5094.7	5084.7
22.5°	6682.4	6569.0	6330.7	6078.1	5841.2	5511.0	5159.3	4883.7	4720.0	4646.8	4652.6
25°	6859.0	6701.1	6431.2	6125.4	5703.4	5212.4	4745.9	4407.1	4217.6	4135.8	4132.9
27.5°	7014.0	6834.6	6540.3	6086.7	5446.4	4787.5	4256.4	3926.2	3768.3	3697.9	3686.5
30°	7192.0	7002.5	6685.3	5938.8	5070.3	4296.6	3778.3	3545.8	3433.8	3363.5	3350.5
32.5°	7408.8	7230.8	6804.4	5670.4	4589.4	3784.1	3405.1	3242.9	3141.0	3062.0	3047.6
35°	7724.6	7532.3	6834.6	5285.6	4061.1	3379.2	3130.9	2964.4	2826.6	2724.6	2714.6
37.5°	8120.8	7909.8	6765.7	4787.5	3548.6	3116.5	2902.7	2697.4	2517.9	2374.4	2351.4
40°	8692.2	8373.5	6574.8	4213.3	3171.1	2914.1	2680.1	2446.2	2223.6	2055.7	2022.7
42.5°	9378.4	8917.5	6281.9	3642.0	2894.0	2708.9	2459.1	2169.1	1956.6	1837.5	1820.3
45°	10251.2	9483.1	5875.6	3142.4	2621.3	2503.6	2220.8	1953.8	1821.7	1734.1	1719.8
47.5°	11247.4	10117.7	5449.3	2736.1	2390.2	2311.2	2029.8	1857.6	1752.8	1683.9	1671.0
50°	12471.9	10834.0	4997.1	2403.1	2157.6	2080.1	1939.4	1804.5	1721.2	1668.1	1655.2
52.5°	13852.9	11642.2	4671.2	2140.4	1965.2	1909.3	1892.0	1775.8	1708.3	1668.1	1655.2
55°	15340.1	12464.8	4319.5	1919.3	1798.7	1814.5	1860.5	1778.6	1732.7	1683.9	1665.2
57.5°	16828.8	13314.6	3927.6	1732.7	1666.7	1744.2	1838.9	1784.4	1745.6	1698.2	1681.0
60°	18005.9	13852.9	3320.4	1576.2	1561.9	1666.7	1787.2	1741.3	1691.1	1692.5	1689.6
62.5°	18555.7	13824.2	2650.0	1437.0	1457.1	1561.9	1704.0	1673.8	1632.2	1688.2	1692.5
65°	18247.1	13135.1	2062.9	1310.6	1345.1	1452.8	1617.8	1640.8	1655.2	1762.8	1777.2
67.5°	16952.2	11794.4	1597.8	1200.1	1243.2	1378.1	1626.5	1787.2	1805.9	1919.3	1917.9
69°	15612.9	10536.8	1388.2	1142.7	1192.9	1396.8	1738.4	1880.6	1810.2	1930.8	1913.6
70°	14490.3	9542.0	1276.2	1103.9	1170.0	1429.8	1813.1	1879.1	1788.7	1892.0	1863.3
72.5°	11159.9	6864.7	1082.4	1032.1	1092.4	1368.1	1834.6	1837.5	1738.4	1758.5	1709.7
75°	7654.3	4338.2	944.6	934.5	974.7	1233.1	1765.7	1755.7	1607.8	1579.1	1538.9
77.5°	4220.5	2203.5	802.5	841.2	868.5	1092.4	1604.9	1590.6	1468.6	1408.3	1393.9
80°	1627.9	964.7	677.6	747.9	765.1	946.0	1406.8	1393.9	1292.0	1214.5	1192.9
82.5°	614.4	505.3	559.9	647.4	641.7	780.9	1191.5	1184.3	1085.3	971.9	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)