

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: P320913

Luminaire Tested: **GAN-SA9A-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38924 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

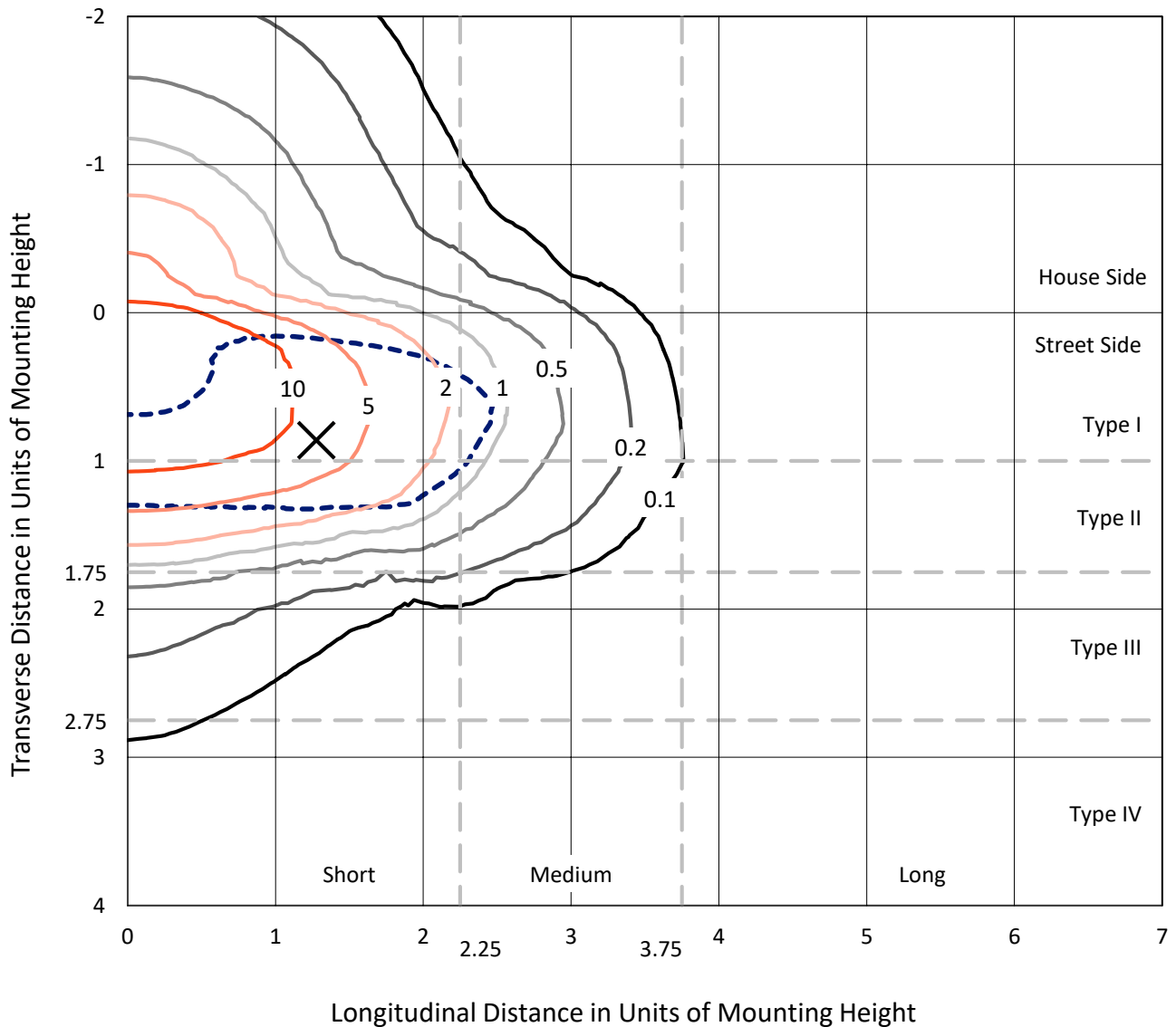
Input Watts (W): 290
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

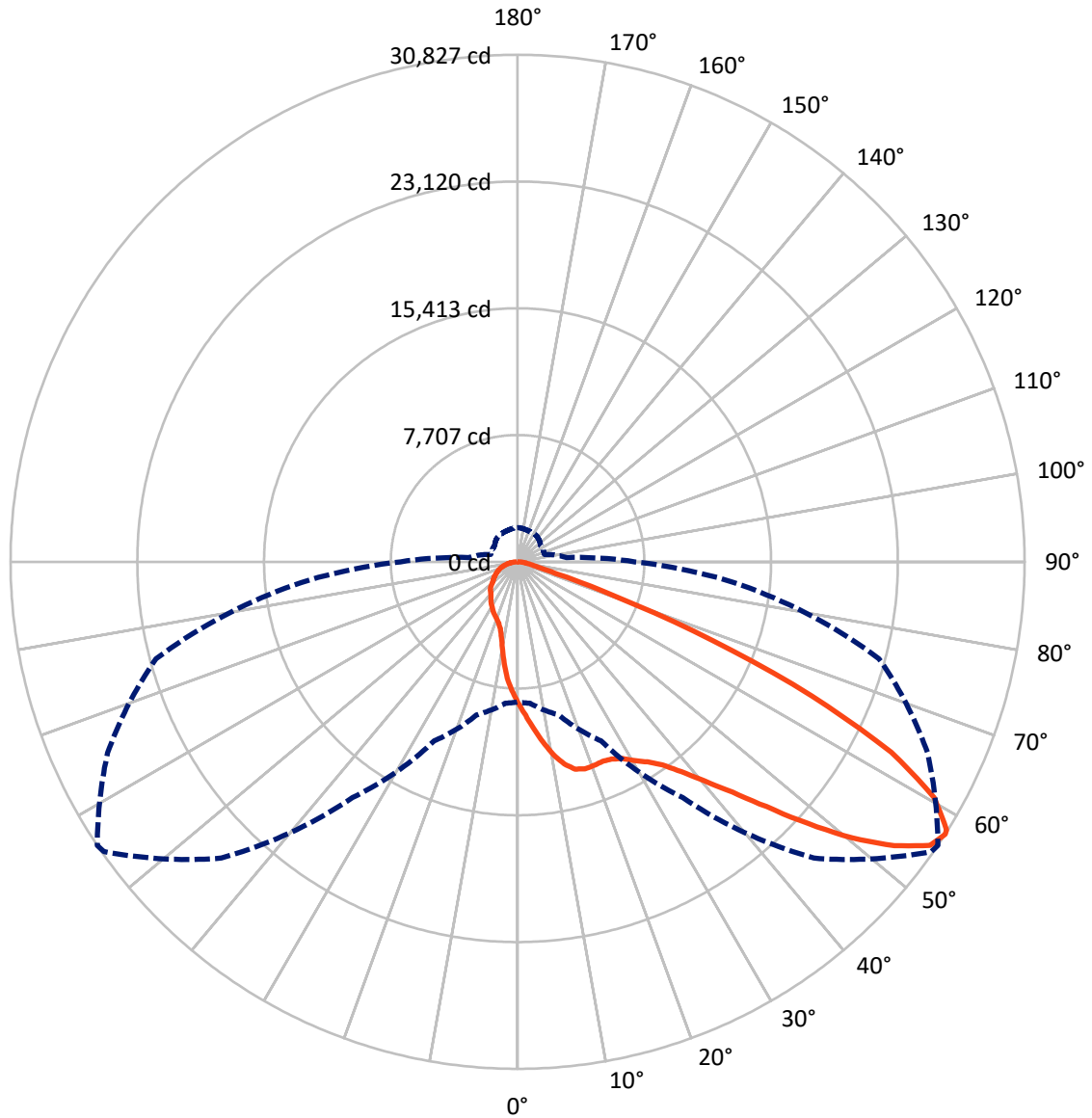
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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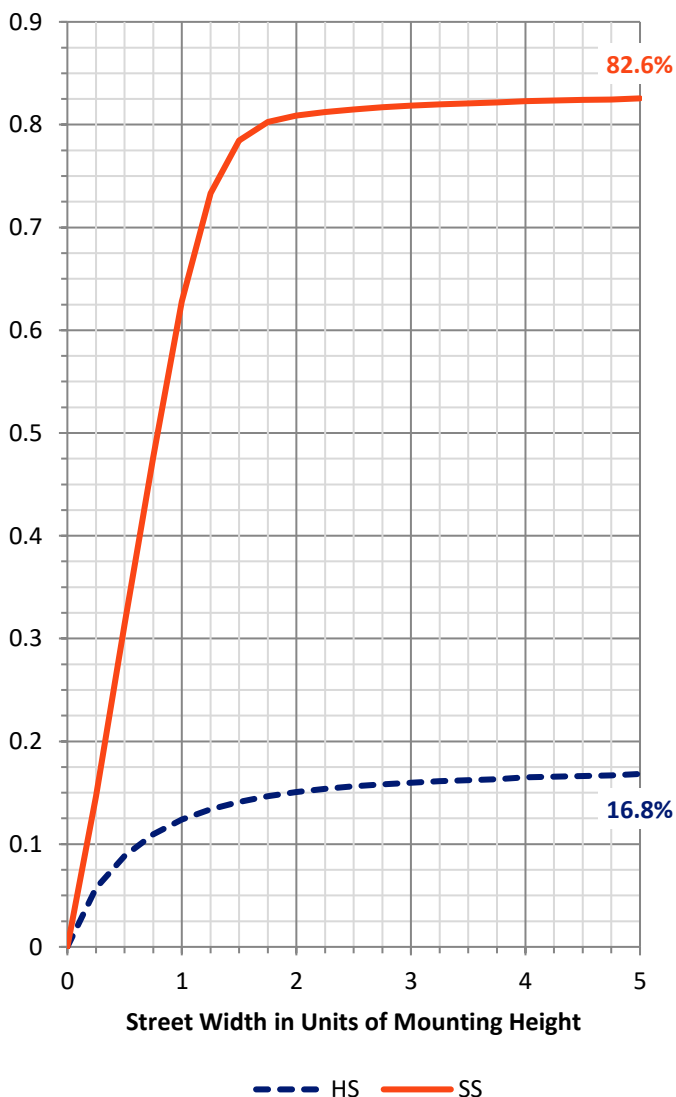
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6709.7	0.0	6709.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	32214.3	0.0	32214.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	38924.0	0.0	38924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	824.7	2.1
10°-20°	2331.6	6.0
20°-30°	3797.8	9.8
30°-40°	5677.2	14.6
40°-50°	8611.2	22.1
50°-60°	9651.6	24.8
60°-70°	5700.6	14.6
70°-80°	1867.8	4.8
80°-90°	461.5	1.2
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°	38924.0	100.0
0°-180°	38924.0	100.0

Coefficient of Utilization

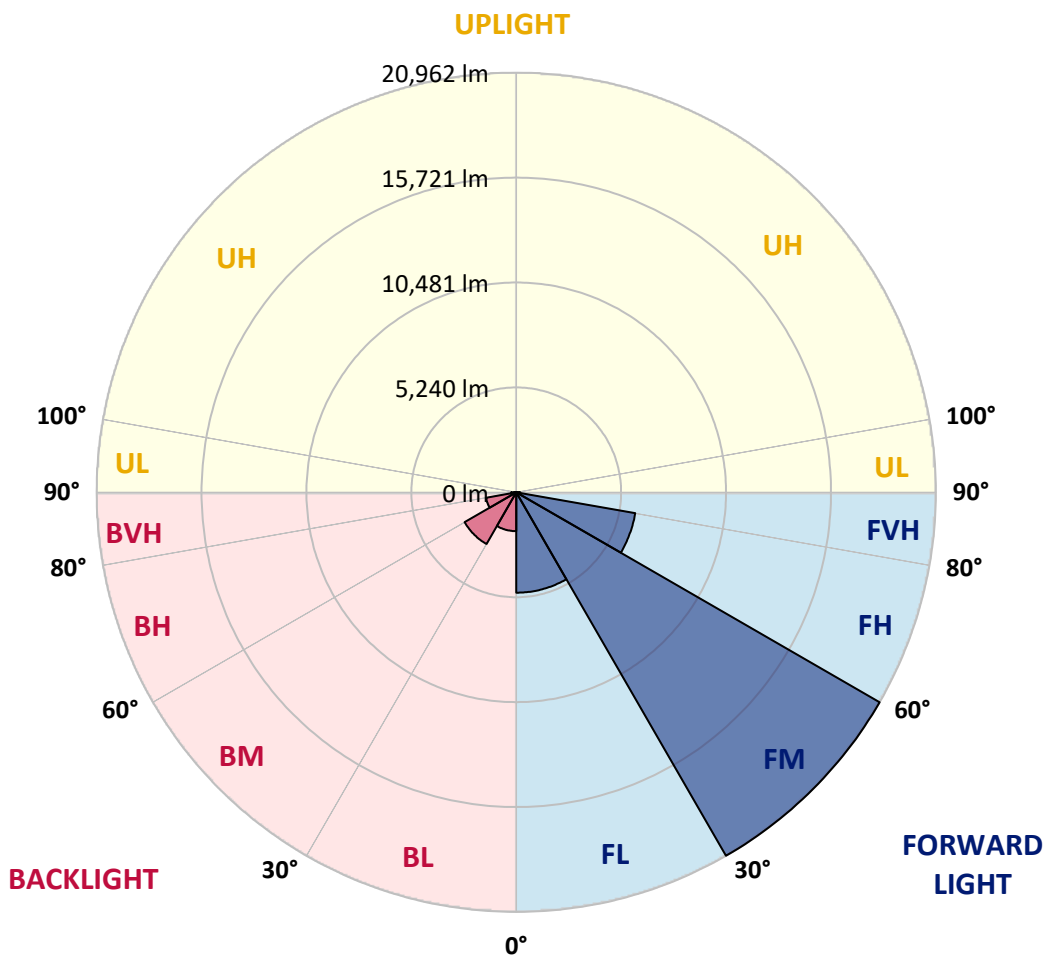


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5014.0	12.9			
FM (30°-60°)	20961.9	53.9			
FH (60°-80°)	6035.3	15.5			G3/7500
FVH (80°-90°)	203.2	0.5			G2/225
BL (0°-30°)	1940.1	5.0	B3/2500		
BM (30°-60°)	2978.2	7.7	B3/5000		
BH (60°-80°)	1533.1	3.9	B3/2500		G3/2500
BVH (80°-90°)	258.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8633.4	8633.4	8633.4	8633.4	8633.4	8633.4	8633.4	8633.4	8633.4	8633.4	8633.4
2.5°	9913.5	10004.5	9964.4	9825.3	9718.2	9567.1	9398.5	9347.7	9169.8	8970.5	8731.0
5°	11482.6	11437.2	11371.6	11154.9	10926.2	10660.0	10237.3	10170.4	9774.4	9323.6	8847.4
7.5°	12376.2	12372.2	12333.4	12206.3	11997.6	11649.8	11140.2	11061.3	10463.3	9738.3	8999.9
10°	12246.4	12237.1	12301.3	12433.7	12496.6	12424.4	11995.0	11916.0	11181.7	10197.1	9176.5
12.5°	11509.4	11514.7	11617.7	11896.0	12274.5	12729.4	12659.8	12621.0	11926.7	10716.1	9390.5
15°	10935.5	10947.6	11029.2	11271.3	11718.1	12543.4	13063.8	13077.1	12647.8	11288.7	9640.7
17.5°	10684.0	10709.5	10746.9	10916.8	11326.1	12172.9	13160.1	13232.3	13279.1	11882.6	9881.4
20°	10764.3	10788.4	10799.1	10907.4	11243.2	11948.1	13093.2	13223.0	13763.4	12441.8	10122.2
22.5°	11124.1	11138.9	11145.5	11173.6	11434.5	12012.4	13049.1	13185.5	14113.8	12943.4	10304.1
25°	11720.7	11710.0	11667.2	11631.1	11806.4	12266.5	13150.7	13280.5	14398.8	13398.2	10423.2
27.5°	12435.1	12421.7	12338.7	12239.8	12340.1	12662.5	13443.7	13546.7	14654.3	13823.6	10483.4
30°	13292.5	13257.7	13101.2	12983.5	13022.3	13256.4	13926.6	14020.2	15048.9	14306.5	10542.2
32.5°	14283.7	14246.3	14020.2	13824.9	13824.9	14020.2	14424.2	14501.8	15383.3	14852.2	10637.2
35°	15525.1	15478.3	15184.0	14856.3	14764.0	14862.9	15102.4	15157.2	15985.3	15539.8	10809.8
37.5°	16988.5	16925.6	16544.4	16105.7	15903.7	15898.3	16070.9	16183.2	16947.1	16442.7	11102.7
40°	18456.0	18411.8	18078.7	17733.6	17337.7	17210.6	17476.8	17511.6	18204.5	17563.7	11477.3
42.5°	19590.3	19582.3	19520.7	19566.2	19160.9	18904.1	19112.8	19140.8	19740.1	18777.0	11875.9
45°	20189.6	20203.0	20501.3	21162.1	21311.9	21124.6	21227.6	21235.7	21495.2	20001.0	12241.1
47.5°	19709.4	19778.9	20533.4	22011.5	23238.2	23860.2	23689.0	23787.9	23196.7	21052.4	12527.4
50°	17837.9	17923.6	19207.7	21632.9	24137.1	26507.4	26417.8	26395.1	24569.1	21822.9	12682.5
52.5°	15519.7	15586.6	16646.1	19665.2	23477.6	27970.9	28793.5	28675.8	25789.1	22399.4	12712.0
55°	11989.6	12094.0	13109.3	15737.8	20810.3	27411.7	30540.5	30434.9	26900.7	22701.7	12677.2
57°	8523.7	8633.4	9642.0	12011.0	17506.2	25476.1	30714.4	30826.8	27501.3	22752.6	12716.0
57.5°	7606.0	7718.4	8717.7	11018.5	16476.2	24776.5	30564.6	30751.9	27609.7	22744.6	12737.4
60°	3829.8	3872.6	4509.3	6150.6	10415.2	20030.4	28610.3	29093.2	27707.3	22351.3	12829.7
62.5°	2381.1	2350.3	2330.2	2833.2	5067.1	13283.1	24577.2	25506.9	25838.6	21398.8	12606.3
65°	2093.5	2035.9	1815.2	1775.1	2237.9	6451.6	18508.1	19665.2	21845.6	19898.0	12073.9
67.5°	1966.4	1910.2	1661.4	1511.6	1512.9	2557.6	11490.7	12793.6	17017.9	17360.4	10817.8
70°	1835.3	1784.5	1551.7	1375.1	1288.2	1416.6	5286.5	6275.1	11093.4	13645.7	9041.4
72.5°	1666.7	1632.0	1411.3	1229.3	1137.0	1060.8	2023.9	2390.4	6422.2	9164.4	6279.1
75°	1490.2	1458.1	1269.5	1095.6	983.2	834.7	1139.7	1228.0	3262.6	4688.6	3091.4
77.5°	1296.2	1277.5	1129.0	968.5	878.9	691.6	806.6	849.4	1399.2	2010.5	1550.4
80°	1031.4	1067.5	987.2	862.8	779.9	553.8	571.2	599.3	814.6	981.9	880.2
82.5°	671.5	734.4	773.2	700.9	642.1	436.1	410.7	422.7	531.1	599.3	382.6
85°	279.6	314.4	508.3	458.8	426.7	318.4	275.6	280.9	329.1	341.1	156.5
87.5°	124.4	132.4	223.4	210.0	180.6	109.7	117.7	128.4	175.2	165.9	60.2
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°	8633.4	8633.4	8633.4	8633.4	8633.4	8633.4	8633.4	8633.4	8633.4	8633.4	8633.4
2.5°	8641.4	8529.0	8336.4	8123.7	7949.8	7810.7	7670.2	7573.9	7461.6	7401.4	7370.6
5°	8648.1	8427.4	8022.1	7606.0	7234.2	6894.4	6570.7	6321.9	6089.1	5963.4	5928.6
7.5°	8676.2	8344.4	7689.0	7004.1	6343.3	5740.0	5274.5	4982.9	4772.8	4679.2	4652.4
10°	8698.9	8246.8	7277.0	6263.0	5364.1	4752.8	4391.6	4228.4	4156.2	4144.1	4132.1
12.5°	8752.4	8146.5	6843.6	5489.8	4603.0	4180.2	4054.5	4043.8	4063.9	4093.3	4093.3
15°	8836.7	8047.5	6348.6	4826.3	4118.7	3970.2	3995.6	4054.5	4109.3	4154.8	4161.5
17.5°	8898.2	7925.7	5816.2	4295.3	3860.5	3900.7	3991.6	4074.6	4130.8	4174.9	4178.9
20°	8942.4	7737.1	5247.7	3890.0	3712.1	3836.5	3950.2	4023.7	4062.5	4106.7	4113.4
22.5°	8919.6	7484.3	4743.4	3599.7	3591.7	3742.8	3851.2	3939.5	3910.0	3867.2	3895.3
25°	8810.0	7136.5	4224.4	3383.0	3464.6	3617.1	3750.9	3692.0	3593.0	3574.3	3585.0
27.5°	8614.7	6692.4	3744.2	3182.3	3317.4	3500.7	3492.7	3433.8	3399.0	3375.0	3389.7
30°	8404.6	6210.8	3324.1	3007.1	3154.2	3305.4	3274.6	3273.3	3238.5	3199.7	3218.5
32.5°	8197.3	5726.6	2991.0	2862.6	3031.2	3051.2	3118.1	3138.2	3070.0	2988.4	2983.0
35°	8016.7	5269.1	2738.2	2731.5	2882.7	2885.4	2983.0	2954.9	2785.0	2700.8	2700.8
37.5°	7881.6	4813.0	2545.6	2613.8	2687.4	2757.0	2806.5	2690.1	2662.0	2615.2	2613.8
40°	7822.7	4411.7	2425.2	2524.2	2549.6	2637.9	2510.8	2556.3	2569.7	2545.6	2545.6
42.5°	7761.2	4062.5	2320.9	2456.0	2452.0	2439.9	2375.7	2434.6	2488.1	2489.4	2485.4
45°	7699.7	3761.6	2228.6	2310.2	2366.4	2236.6	2248.6	2311.5	2386.4	2413.2	2413.2
47.5°	7631.5	3523.4	2144.3	2156.3	2243.3	2156.3	2147.0	2195.1	2283.4	2326.2	2335.6
50°	7481.6	3309.4	2048.0	2021.2	2045.3	2074.7	2082.8	2105.5	2203.2	2271.4	2287.4
52.5°	7274.3	3118.1	1924.9	1896.8	1896.8	2007.9	2045.3	2052.0	2134.9	2216.5	2232.6
55°	7101.7	2996.4	1797.8	1792.5	1787.1	1937.0	2001.2	2011.9	2069.4	2133.6	2141.6
57°	7113.8	2987.0	1700.2	1705.5	1704.2	1864.7	1959.7	1982.4	2011.9	2066.7	2076.1
57.5°	7120.5	2993.7	1678.8	1681.5	1680.1	1844.7	1947.7	1973.1	1995.8	2053.3	2062.7
60°	7220.8	3011.1	1591.8	1562.4	1569.1	1737.6	1879.4	1911.5	1926.3	2002.5	2014.5
62.5°	7072.3	2933.5	1522.3	1451.4	1451.4	1625.3	1784.5	1835.3	1858.0	1961.0	1981.1
65°	6641.6	2715.5	1440.7	1325.6	1339.0	1512.9	1670.8	1753.7	1788.5	1916.9	1938.3
67.5°	5976.7	2462.7	1353.7	1213.3	1226.7	1395.2	1553.0	1642.7	1697.5	1868.7	1886.1
70°	5111.3	2153.7	1236.0	1094.2	1110.3	1266.8	1413.9	1515.6	1597.2	1823.3	1828.6
72.5°	3768.2	1765.7	1071.5	963.1	980.5	1117.0	1273.5	1391.2	1500.9	1709.6	1706.9
75°	2240.6	1380.5	889.6	830.7	842.7	969.8	1146.4	1289.5	1454.1	1665.4	1690.8
77.5°	1359.1	1039.4	725.0	695.6	710.3	840.1	1055.4	1207.9	1434.0	1570.4	1562.4
80°	821.3	742.4	579.2	560.5	575.2	718.3	976.5	1146.4	1253.4	1341.7	1341.7
82.5°	429.4	453.5	425.4	410.7	430.7	583.2	888.2	1000.6	1107.6	951.1	888.2
85°	175.2	236.8	258.2	256.8	268.9	404.0	766.5	856.1	714.3	678.2	694.3
87.5°	58.9	100.3	125.7	108.4	113.7	254.2	531.1	413.3	490.9	342.4	325.1
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)