

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: P322198

Luminaire Tested: **GAN-SA4B-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15299 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

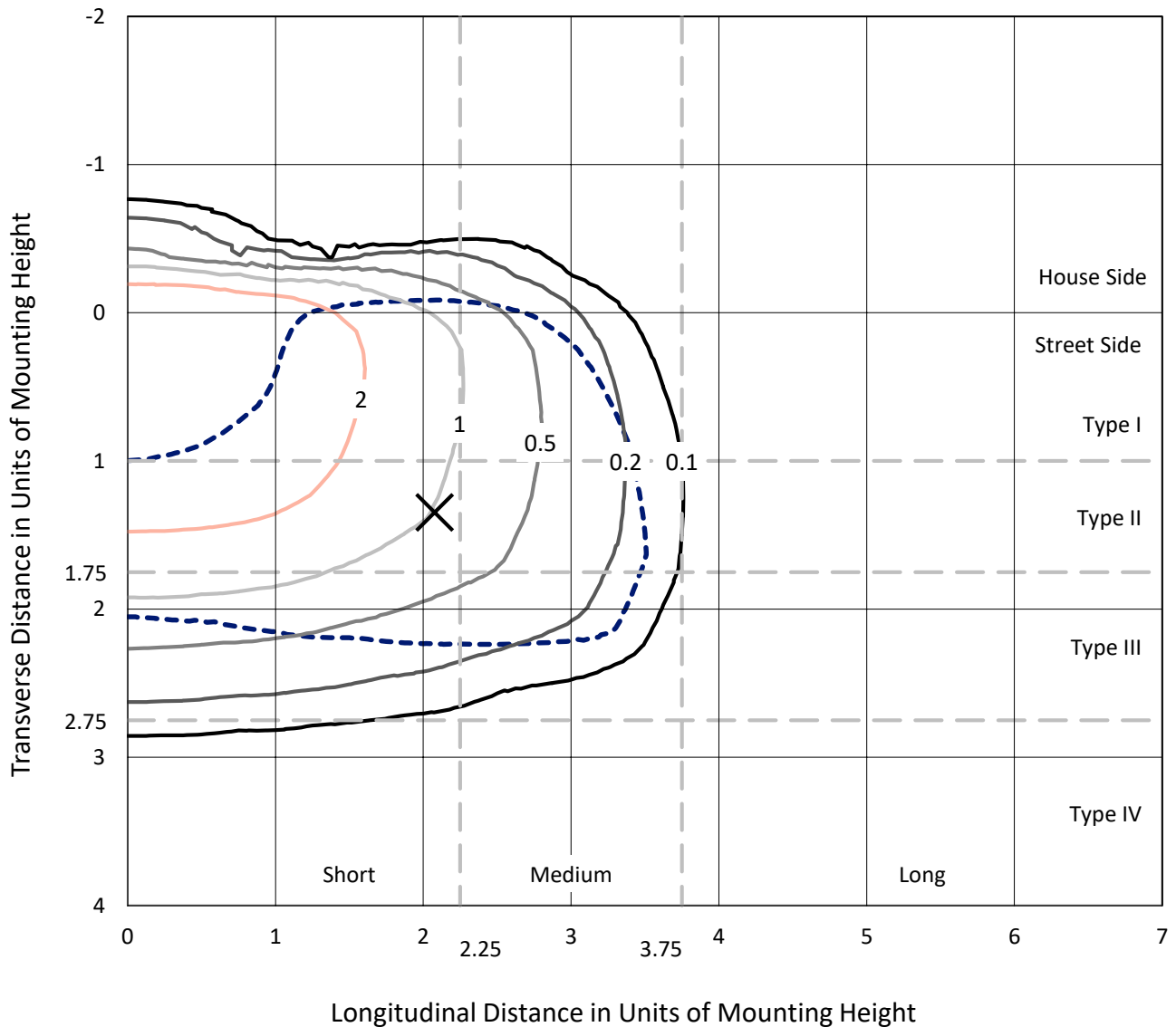
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

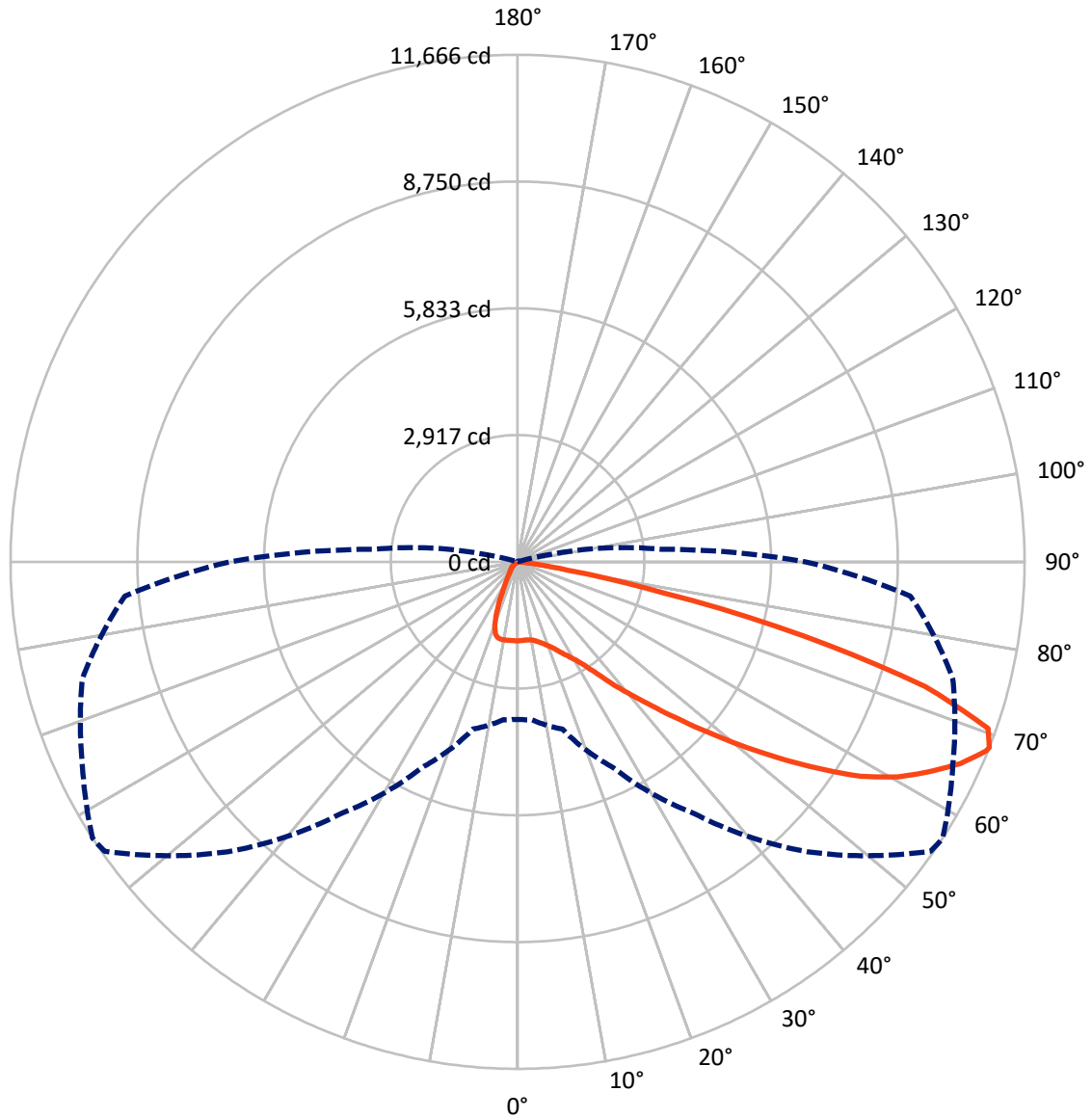
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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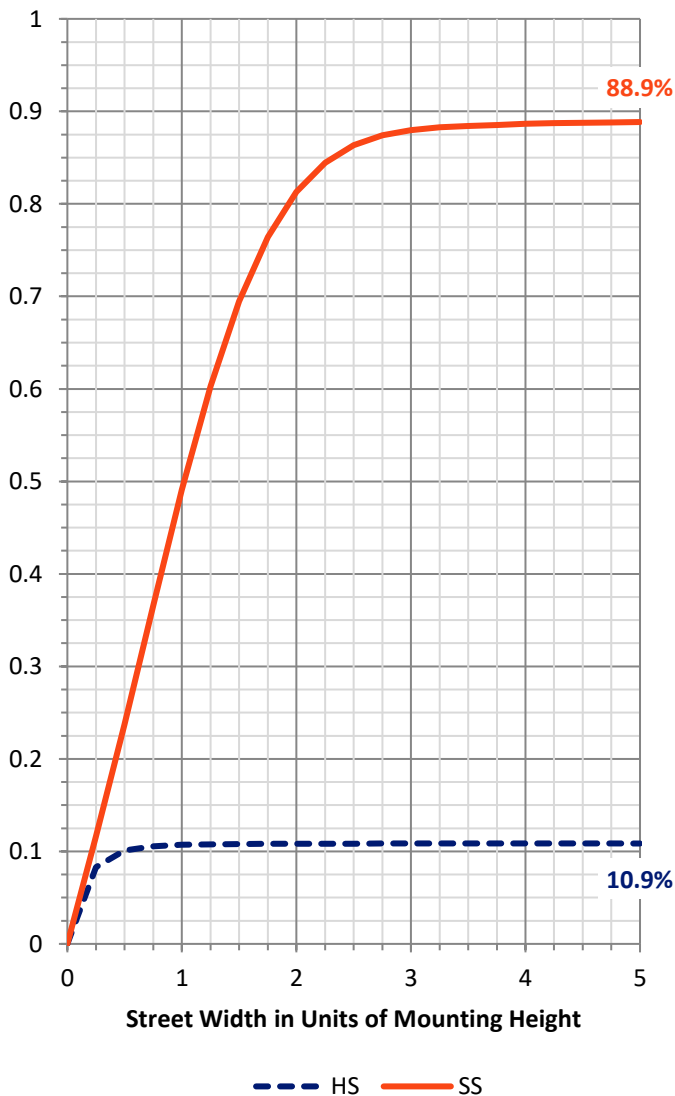
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1677.6	0.0	1677.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	13621.4	0.0	13621.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	15299.0	0.0	15299.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	1.1
10°-20°	471.4	3.1
20°-30°	813.3	5.3
30°-40°	1403.7	9.2
40°-50°	2401.1	15.7
50°-60°	3841.5	25.1
60°-70°	4438.4	29.0
70°-80°	1696.0	11.1
80°-90°	63.6	0.4
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°	15299.0	100.0
0°-180°	15299.0	100.0

Coefficient of Utilization

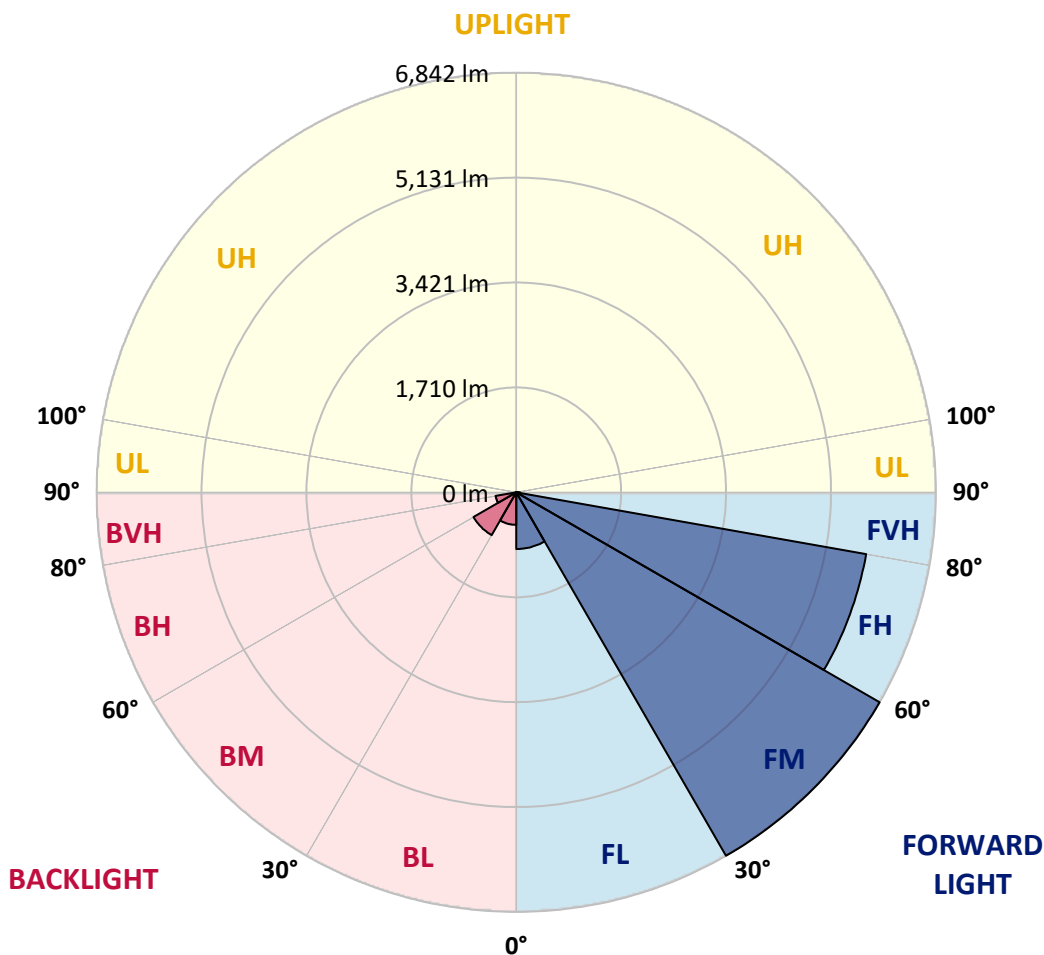


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	924.7	6.0			
FM (30°-60°)	6841.6	44.7			
FH (60°-80°)	5792.7	37.9			G3/7500
FVH (80°-90°)	62.4	0.4			G1/100
BL (0°-30°)	530.2	3.5	B2/1000		
BM (30°-60°)	804.6	5.3	B1/1000		
BH (60°-80°)	341.7	2.2	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1817.9	1817.9	1817.9	1817.9	1817.9	1817.9	1817.9	1817.9	1817.9	1817.9	1817.9
2.5°	1775.2	1783.2	1789.0	1792.6	1796.9	1806.4	1809.2	1813.6	1815.8	1815.8	1820.8
5°	1705.1	1713.8	1726.1	1736.2	1756.4	1782.5	1801.3	1808.5	1821.5	1833.1	1839.6
7.5°	1640.0	1650.1	1664.6	1688.4	1723.2	1765.1	1804.2	1814.3	1839.6	1864.2	1876.5
10°	1598.0	1606.0	1624.8	1658.8	1704.3	1762.9	1817.9	1830.2	1873.6	1914.9	1938.0
12.5°	1583.5	1590.8	1610.3	1648.6	1705.1	1773.8	1849.8	1867.8	1931.5	1991.5	2024.1
15°	1604.5	1606.0	1626.9	1663.1	1718.8	1800.6	1902.6	1924.3	2004.6	2082.7	2123.2
17.5°	1685.5	1679.0	1689.9	1705.8	1749.9	1836.0	1958.3	1990.8	2097.9	2189.8	2228.1
20°	1888.1	1888.1	1863.5	1820.1	1820.8	1891.0	2033.5	2070.4	2201.3	2307.7	2342.4
22.5°	2234.6	2228.1	2178.9	2072.6	1974.9	1985.8	2125.4	2173.1	2325.8	2439.3	2450.9
25°	2651.3	2643.3	2567.4	2417.6	2248.4	2139.1	2249.8	2304.8	2474.1	2574.6	2550.7
27.5°	3092.6	3086.1	3010.8	2824.9	2584.0	2383.6	2398.1	2450.2	2625.2	2724.4	2648.4
30°	3520.1	3522.3	3447.8	3256.8	2984.1	2695.4	2586.2	2616.6	2772.1	2872.7	2764.1
32.5°	3926.7	3929.6	3865.2	3651.8	3397.1	3057.8	2846.6	2838.7	2942.8	3041.9	2917.5
35°	4289.1	4296.3	4252.2	4086.5	3816.7	3461.5	3184.4	3165.6	3185.2	3297.3	3152.6
37.5°	4638.5	4642.8	4609.6	4469.9	4244.2	3905.0	3611.3	3584.5	3542.5	3628.6	3463.0
40°	5021.2	5010.3	4972.0	4845.4	4651.5	4394.7	4069.9	4023.6	3950.5	4027.2	3871.0
42.5°	5377.1	5364.8	5371.3	5228.1	5064.6	4898.2	4604.5	4524.9	4482.2	4570.5	4371.6
45°	5822.0	5815.5	5837.2	5712.8	5580.4	5459.6	5217.2	5130.4	5111.6	5215.0	4977.0
47.5°	6261.1	6277.0	6344.3	6291.5	6237.9	6131.6	5866.1	5827.1	5838.6	5963.8	5615.8
50°	6627.1	6646.0	6830.4	6891.2	6968.6	6906.4	6640.2	6616.3	6661.9	6774.7	6303.1
52.5°	6891.9	6930.2	7159.6	7439.5	7721.7	7763.6	7498.1	7476.4	7537.9	7555.3	6834.0
55°	7075.7	7109.7	7369.4	7881.5	8455.9	8636.8	8471.8	8387.9	8376.3	8204.9	7392.5
57.5°	7108.2	7104.6	7477.9	8167.3	9031.8	9498.3	9394.2	9311.7	9074.4	8805.3	8032.7
60°	6924.5	6945.4	7378.8	8266.4	9393.5	10150.1	10158.1	10051.0	9681.4	9389.1	8653.4
62.5°	6358.8	6444.1	6881.8	8006.7	9389.1	10412.7	10718.0	10636.3	10194.3	9867.3	9282.8
65°	5441.5	5471.9	5889.3	7116.9	8754.7	10302.8	11222.2	11191.8	10656.5	10331.7	9606.1
67.5°	3973.7	3907.9	4346.2	5604.2	7412.0	9661.8	11583.9	11622.3	11013.2	10427.2	9261.8
68°	3626.4	3646.0	3987.4	5230.2	7060.5	9435.4	11607.8	11666.4	11048.6	10365.0	9073.7
70°	2161.5	2199.2	2503.7	3601.1	5371.3	8154.3	11350.3	11484.1	10837.4	9723.3	7848.3
72.5°	552.0	596.8	884.7	1611.8	3068.0	5745.3	9581.5	9808.0	9409.4	7888.0	5298.2
75°	227.2	238.7	316.1	531.0	1143.0	2588.4	6315.4	6800.0	6523.0	4722.4	2394.5
77.5°	157.0	164.9	203.3	294.4	494.8	877.5	3096.2	3446.3	3104.9	1611.8	522.3
80°	112.9	119.4	145.4	196.0	284.3	313.2	1009.2	1166.9	926.7	353.7	129.5
82.5°	67.3	72.3	108.5	139.6	172.9	149.7	251.0	285.0	268.4	175.8	57.9
85°	33.3	39.1	73.1	99.8	93.3	62.9	76.7	85.4	105.6	107.1	31.1
87.5°	2.2	4.3	42.7	60.0	26.0	14.5	22.4	27.5	37.6	52.8	13.0
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°	1817.9	1817.9	1817.9	1817.9	1817.9	1817.9	1817.9	1817.9	1817.9	1817.9	1817.9
2.5°	1823.0	1823.7	1818.6	1816.5	1817.9	1809.2	1805.6	1807.1	1807.1	1809.2	1805.6
5°	1841.1	1841.1	1832.4	1820.8	1814.3	1797.7	1786.8	1783.9	1781.8	1780.3	1777.4
7.5°	1880.1	1875.8	1860.6	1835.3	1813.6	1777.4	1749.9	1735.5	1728.2	1725.3	1723.2
10°	1943.1	1935.1	1909.8	1862.8	1812.9	1748.5	1688.4	1645.8	1610.3	1595.8	1587.2
12.5°	2027.7	2016.1	1973.5	1895.3	1807.8	1689.2	1558.9	1433.8	1317.3	1269.6	1245.7
15°	2125.4	2108.7	2041.5	1922.8	1778.1	1555.3	1272.5	1053.3	892.0	831.2	805.2
17.5°	2224.5	2202.8	2100.8	1940.2	1689.2	1278.3	892.7	674.2	566.4	537.5	527.4
20°	2324.3	2292.5	2152.1	1927.2	1488.1	921.6	588.9	492.6	461.5	452.9	450.0
22.5°	2419.1	2369.9	2198.4	1876.5	1178.4	618.5	465.9	435.5	425.4	420.3	418.9
25°	2501.5	2432.8	2238.9	1720.3	834.1	467.3	419.6	409.4	396.4	387.0	387.7
27.5°	2578.9	2495.8	2263.5	1462.7	556.3	399.3	388.5	374.7	350.9	337.1	337.1
30°	2672.3	2579.7	2281.6	1125.6	409.4	353.0	344.3	323.4	290.8	272.7	272.7
32.5°	2812.6	2707.0	2270.1	790.0	339.3	310.3	290.1	261.2	225.7	208.3	207.6
35°	3027.5	2903.8	2187.6	518.0	299.5	269.8	237.3	201.8	170.7	156.3	155.5
37.5°	3316.8	3167.1	2002.4	370.4	268.4	232.2	193.1	154.1	130.9	121.5	120.8
40°	3692.3	3473.1	1737.6	300.2	239.4	196.0	149.0	119.4	103.4	96.2	96.9
42.5°	4143.0	3800.8	1420.1	259.0	211.2	161.3	116.5	94.0	83.9	78.9	77.4
45°	4643.6	4124.1	1087.3	230.8	183.0	130.2	91.1	74.5	66.6	63.7	63.7
47.5°	5194.1	4438.8	795.7	206.2	152.6	100.6	73.1	60.8	54.3	52.1	51.4
50°	5693.9	4657.3	573.7	180.1	125.1	79.6	59.3	50.6	46.3	43.4	43.4
52.5°	6110.6	4726.0	422.5	151.9	101.3	63.7	49.2	43.4	39.1	36.9	36.9
55°	6477.4	4697.8	314.0	125.1	81.7	52.1	42.0	36.9	33.3	31.1	31.1
57.5°	6829.0	4606.7	234.4	102.0	65.8	42.0	35.4	31.1	27.5	26.0	26.0
60°	7116.2	4454.7	174.3	82.5	52.8	34.0	29.7	25.3	22.4	20.3	20.3
62.5°	7349.1	4286.9	128.0	68.0	42.0	26.8	23.1	21.0	16.6	14.5	14.5
65°	7350.5	4008.4	96.2	56.4	32.6	21.0	17.4	16.6	10.9	8.7	8.0
67.5°	6818.8	3455.7	73.8	48.5	25.3	15.9	13.0	13.7	5.8	3.6	2.9
68°	6625.7	3315.4	69.4	47.7	23.9	15.2	12.3	13.7	5.1	2.9	2.2
70°	5586.2	2637.5	55.7	46.3	21.0	11.6	10.1	13.7	4.3	2.2	1.4
72.5°	3572.9	1530.7	41.2	36.9	15.9	8.7	6.5	12.3	4.3	1.4	0.7
75°	1520.6	474.6	28.2	26.0	9.4	6.5	4.3	8.0	2.9	0.7	0.0
77.5°	320.5	107.1	16.6	15.9	6.5	4.3	2.9	2.2	0.7	0.0	0.0
80°	82.5	31.1	8.7	8.0	3.6	2.2	1.4	0.0	0.0	0.0	0.0
82.5°	26.0	12.3	5.1	3.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.0	7.2	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	2.2	0.7	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)