

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: P321646

Luminaire Tested: **GAN-SA2C-750-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-750-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11130 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

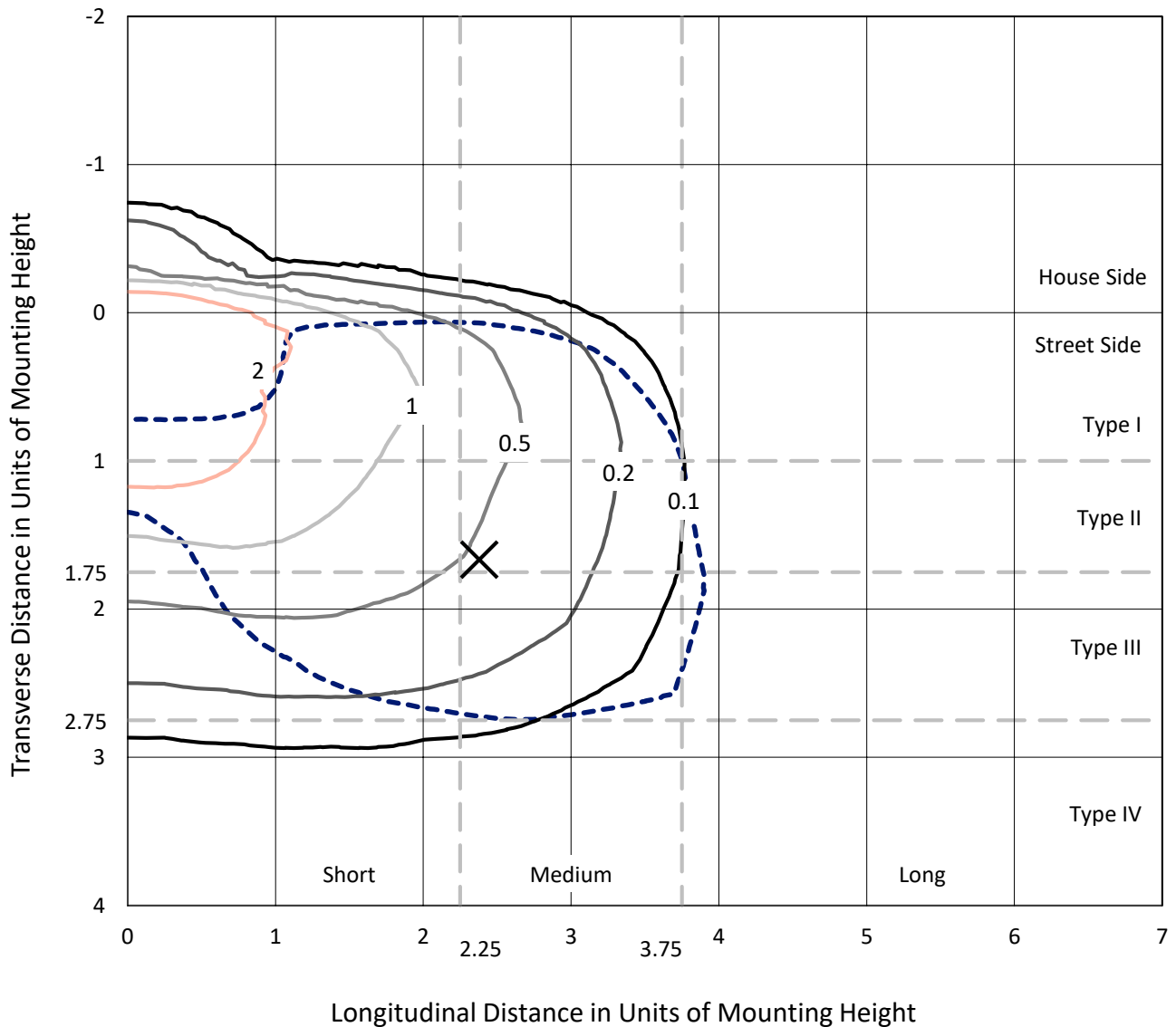
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

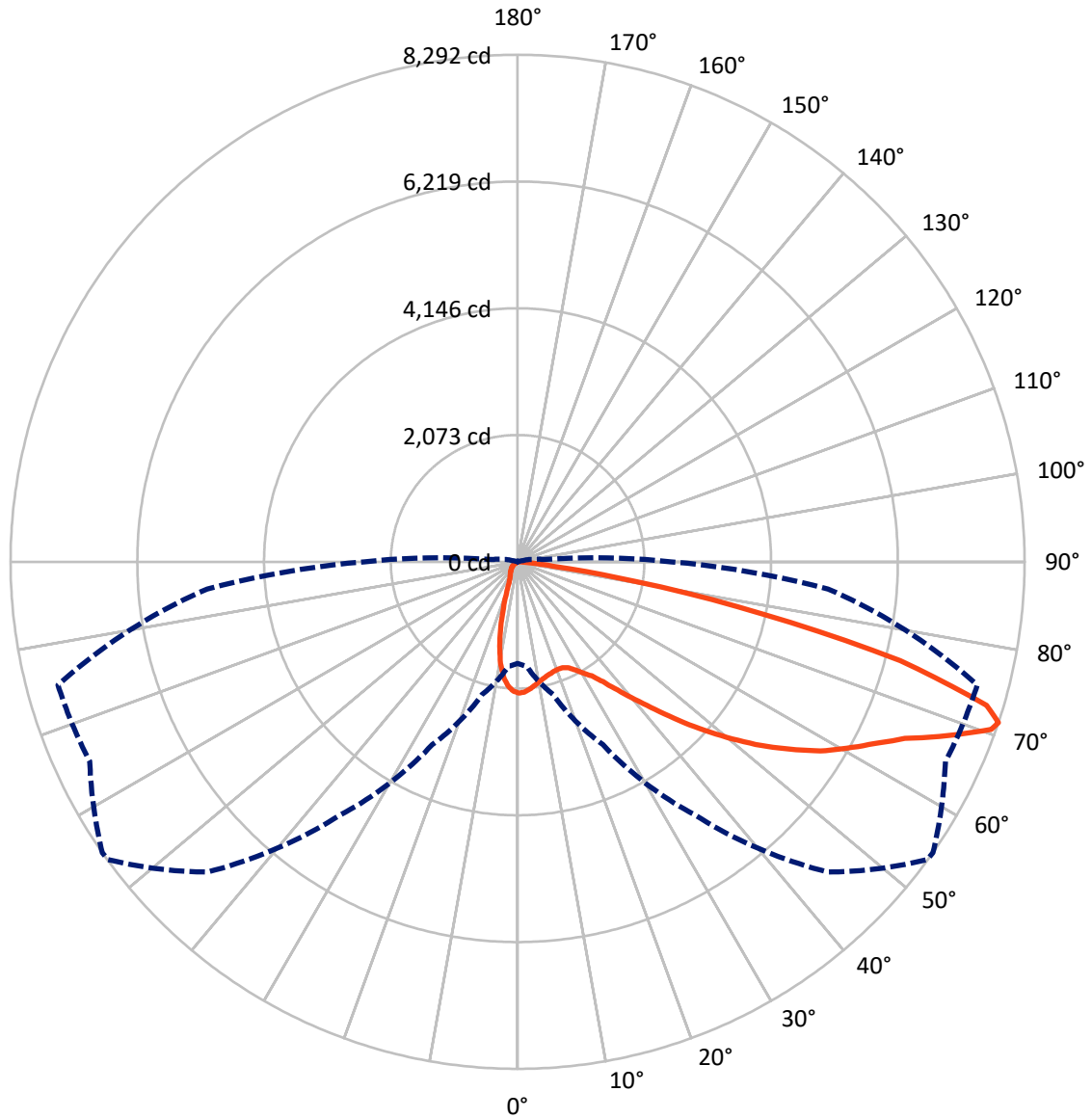
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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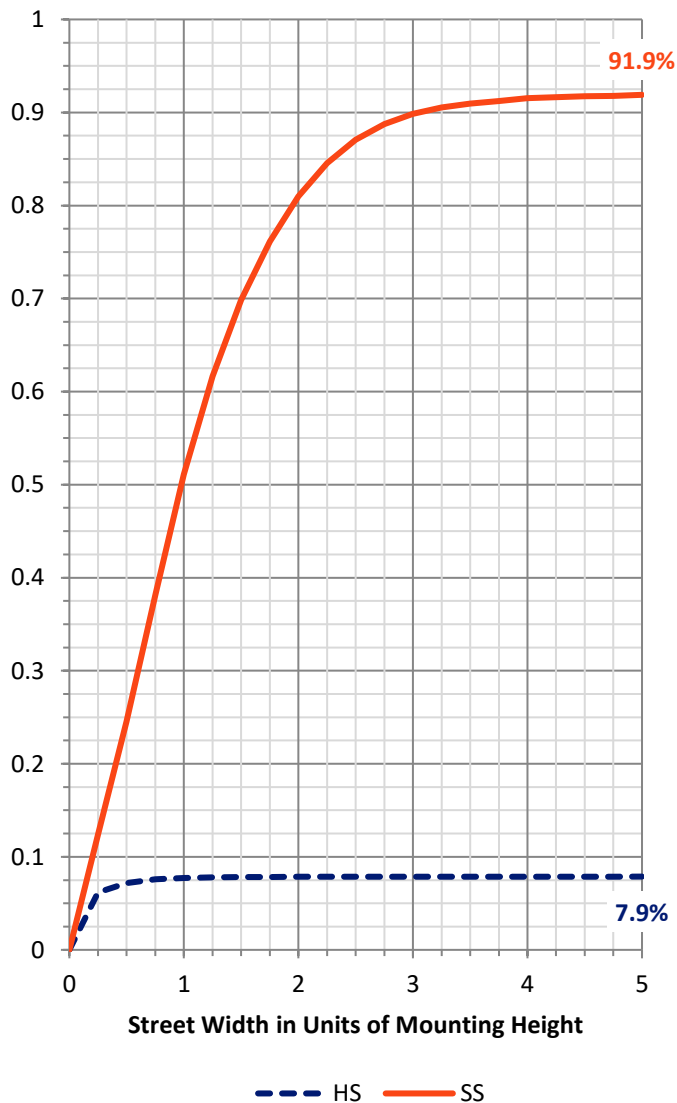
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	881.2	0.0	881.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	10248.8	0.0	10248.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	11130.0	0.0	11130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.0	1.6
10°-20°	413.2	3.7
20°-30°	664.0	6.0
30°-40°	1128.1	10.1
40°-50°	1751.0	15.7
50°-60°	2354.2	21.2
60°-70°	2879.9	25.9
70°-80°	1683.8	15.1
80°-90°	72.8	0.7
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°	11130.0	100.0
0°-180°	11130.0	100.0

Coefficient of Utilization

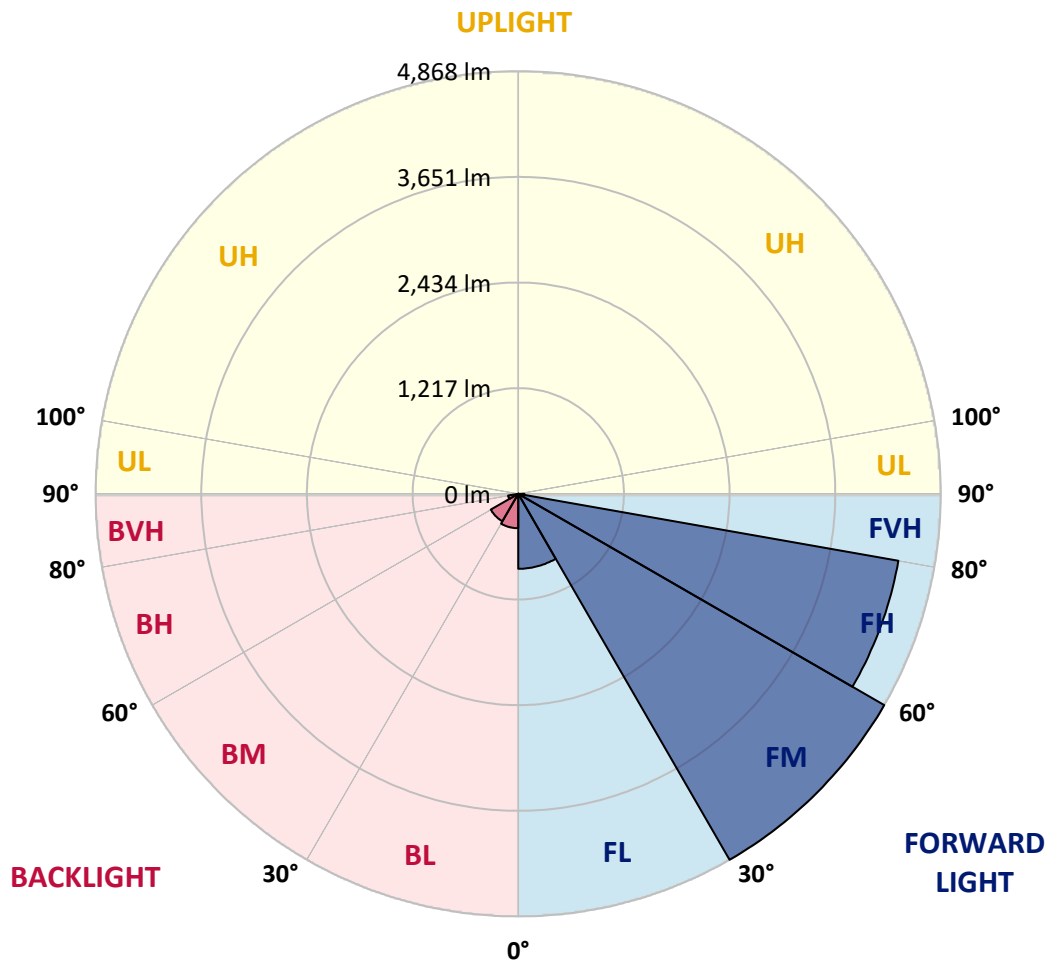


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	863.5	7.8			
FM (30°-60°)	4867.9	43.7			
FH (60°-80°)	4445.7	39.9			G2/5000
FVH (80°-90°)	71.6	0.6			G1/100
BL (0°-30°)	396.6	3.6	B1/500		
BM (30°-60°)	365.4	3.3	B1/1000		
BH (60°-80°)	118.1	1.1	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5
2.5°	2083.5	2086.0	2095.0	2099.0	2108.5	2124.5	2132.5	2133.0	2146.0	2151.0	2155.0
5°	1936.1	1951.1	1966.0	1982.0	2011.0	2049.5	2087.5	2091.0	2133.0	2164.0	2180.4
7.5°	1809.1	1822.6	1840.6	1866.1	1907.1	1967.5	2031.0	2038.5	2118.0	2188.4	2225.4
10°	1678.7	1689.7	1715.7	1753.2	1809.6	1890.6	1976.0	1988.5	2104.5	2221.4	2286.4
12.5°	1539.3	1545.8	1577.2	1631.2	1714.2	1817.1	1929.6	1946.1	2096.0	2259.4	2358.4
15°	1433.3	1436.3	1466.3	1522.3	1617.2	1751.2	1893.6	1913.6	2098.0	2304.9	2436.8
17.5°	1406.3	1407.8	1423.8	1462.3	1546.3	1692.2	1865.1	1889.6	2104.0	2349.4	2515.8
20°	1515.8	1505.3	1488.8	1482.8	1518.8	1656.7	1848.1	1875.6	2112.0	2388.8	2586.7
22.5°	1816.1	1785.1	1716.7	1625.2	1569.7	1659.2	1852.6	1880.1	2137.5	2437.3	2668.7
25°	2261.9	2218.9	2102.5	1922.6	1749.7	1731.2	1890.1	1918.1	2186.9	2495.3	2747.2
27.5°	2769.2	2726.7	2584.2	2327.4	2032.5	1873.6	1976.0	2002.0	2260.4	2546.8	2807.1
30°	3254.9	3242.9	3075.0	2783.2	2388.3	2104.5	2087.0	2109.0	2314.9	2577.8	2854.6
32.5°	3666.7	3647.7	3512.8	3228.9	2795.6	2381.8	2217.4	2223.9	2355.9	2617.7	2916.6
35°	4048.5	4025.1	3906.6	3638.2	3213.4	2720.7	2418.3	2408.8	2445.3	2698.2	3006.5
37.5°	4381.9	4403.4	4271.9	4016.6	3588.3	3073.0	2689.2	2660.7	2585.2	2829.1	3137.0
40°	4660.7	4660.7	4592.3	4379.4	3993.1	3437.3	2995.5	2958.1	2795.6	3031.0	3302.4
42.5°	4761.2	4782.7	4808.2	4687.7	4355.4	3816.2	3336.9	3297.9	3092.0	3317.4	3511.3
45°	4767.2	4801.2	4931.6	4931.1	4682.7	4192.5	3721.7	3703.2	3471.8	3685.2	3770.2
47.5°	4682.7	4725.2	4940.1	5062.0	4942.1	4542.8	4142.5	4119.5	3918.1	4136.0	4041.0
50°	4552.3	4599.3	4849.2	5113.5	5118.5	4847.7	4585.8	4551.3	4409.4	4651.2	4320.9
52.5°	4318.9	4409.9	4767.7	5125.5	5234.5	5111.0	5007.6	4992.6	4959.1	5147.5	4543.8
55°	3819.7	3920.6	4563.3	5129.5	5341.9	5344.4	5402.9	5406.9	5474.3	5611.3	4709.7
57.5°	3583.8	3640.7	4206.5	5148.5	5501.3	5609.3	5805.7	5836.7	5941.1	6051.6	4899.1
60°	3435.3	3502.8	4030.5	5122.5	5751.7	5956.6	6179.0	6189.5	6301.4	6505.8	5155.5
62.5°	3316.9	3383.4	3919.6	5022.6	6033.1	6374.4	6543.8	6544.8	6628.8	7047.1	5446.9
65°	3024.5	3080.5	3695.2	4910.1	6219.0	6787.7	6967.6	6961.1	7029.6	7617.8	5785.2
67.5°	2601.7	2644.7	3236.9	4483.8	6149.0	7163.5	7607.3	7585.8	7502.9	8111.1	5918.1
70°	2011.5	2027.0	2551.3	3736.7	5493.3	7308.0	8225.5	8214.5	7793.2	8022.6	5430.9
71°	1662.7	1713.7	2248.4	3297.9	5054.1	7174.5	8285.5	8292.0	7720.3	7781.7	5095.5
72.5°	965.5	1009.0	1629.7	2532.8	4290.9	6617.8	7974.6	8021.6	7379.4	7078.1	4352.4
75°	206.9	221.4	604.2	1225.9	2360.4	4638.3	6294.5	6461.9	6014.6	4815.2	2623.2
77.5°	143.9	155.4	258.9	556.2	780.1	2291.9	3910.1	4099.0	3593.3	1809.6	839.6
80°	113.9	126.9	201.9	274.9	210.9	739.1	1831.6	1947.1	1198.4	403.8	141.4
82.5°	63.5	75.5	157.4	148.4	81.0	140.4	512.8	579.7	239.9	81.5	33.5
85°	18.5	22.5	101.5	107.9	34.5	27.0	87.5	108.4	45.5	21.5	15.0
87.5°	0.0	0.0	49.0	41.5	10.0	4.0	8.0	9.0	9.0	9.0	10.0
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°	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5	2146.5
2.5°	2155.0	2158.5	2146.0	2129.5	2112.0	2090.5	2068.0	2050.5	2050.0	2041.5	2033.0
5°	2181.4	2179.4	2145.0	2092.5	2030.5	1966.0	1904.6	1835.1	1812.1	1783.6	1774.1
7.5°	2230.4	2216.4	2143.5	2028.5	1892.6	1757.6	1618.2	1477.8	1417.8	1363.8	1354.3
10°	2291.9	2265.4	2134.0	1932.6	1683.2	1434.3	1223.9	1033.0	949.0	884.6	881.6
12.5°	2355.9	2315.4	2107.5	1787.6	1408.8	1059.0	816.6	628.7	558.7	513.8	517.7
15°	2422.8	2362.4	2050.5	1592.2	1096.5	718.7	501.8	391.3	363.3	351.8	354.8
17.5°	2491.3	2394.8	1971.0	1356.8	788.1	463.8	347.3	316.3	316.3	318.8	319.8
20°	2550.8	2412.3	1854.1	1093.0	534.2	337.8	303.9	299.4	301.9	305.9	306.4
22.5°	2609.7	2413.3	1701.7	825.6	373.8	295.9	289.4	287.4	288.9	293.4	293.9
25°	2657.7	2401.3	1510.8	587.2	298.4	278.9	275.9	274.9	275.9	281.4	281.4
27.5°	2677.2	2357.9	1277.9	412.8	267.4	259.9	258.9	259.9	261.4	265.4	265.9
30°	2679.2	2281.9	1024.0	298.9	242.4	234.4	236.4	239.9	238.4	237.4	238.4
32.5°	2684.2	2193.9	776.6	245.9	221.4	208.9	206.4	206.4	200.4	196.9	194.9
35°	2700.7	2090.5	563.2	220.9	199.9	185.4	175.9	164.9	153.4	147.4	145.9
37.5°	2726.7	1982.0	403.3	204.4	180.9	164.4	146.4	126.9	110.4	105.9	105.9
40°	2774.2	1870.1	298.4	191.4	165.9	145.4	118.4	93.0	78.0	75.5	75.5
42.5°	2849.1	1752.2	237.9	179.9	152.9	125.9	90.5	67.5	56.5	55.0	54.5
45°	2927.1	1622.2	207.9	168.9	138.9	103.4	67.0	50.0	43.5	42.0	42.0
47.5°	3005.0	1483.8	193.4	158.4	125.4	80.5	50.0	39.5	36.5	36.5	37.0
50°	3071.0	1339.4	182.9	146.9	107.9	61.0	39.5	33.5	32.5	34.5	35.0
52.5°	3087.5	1197.4	169.9	132.4	86.5	46.5	32.5	29.5	29.5	29.5	29.5
55°	3077.5	1087.5	152.9	114.4	64.0	37.0	28.0	26.0	25.5	25.5	25.5
57.5°	3111.5	1022.5	122.4	89.0	46.0	30.0	24.5	23.0	22.0	21.5	21.5
60°	3180.0	980.0	87.5	64.0	34.5	25.0	21.0	19.5	18.0	17.0	17.0
62.5°	3270.9	943.0	65.0	47.5	26.5	20.0	17.5	16.0	14.0	13.0	13.0
65°	3340.9	877.1	49.5	35.5	20.0	16.0	13.5	13.0	10.0	9.0	8.5
67.5°	3233.9	732.1	40.0	26.0	15.0	12.5	10.5	10.0	6.0	5.0	5.0
70°	2773.7	509.8	32.0	19.0	11.0	10.0	8.5	6.5	4.5	4.0	4.0
71°	2515.3	425.8	29.0	16.0	9.5	9.5	8.0	5.5	4.0	3.5	3.5
72.5°	2089.5	302.4	24.5	12.5	8.5	10.0	8.5	5.0	4.0	3.5	3.0
75°	1212.9	126.4	17.0	8.5	6.5	12.0	11.0	4.5	3.0	2.5	2.5
77.5°	364.8	46.5	9.5	5.5	5.0	10.5	12.5	4.0	1.5	0.5	0.5
80°	66.5	20.0	6.0	3.5	3.5	6.5	9.5	2.0	0.0	0.0	0.0
82.5°	23.5	10.0	3.5	2.0	1.5	3.0	4.5	0.0	0.0	0.0	0.0
85°	13.5	7.0	2.0	1.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0
87.5°	9.0	2.0	0.0	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)