

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: P322527

Luminaire Tested: **GAN-SA3C-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13966 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

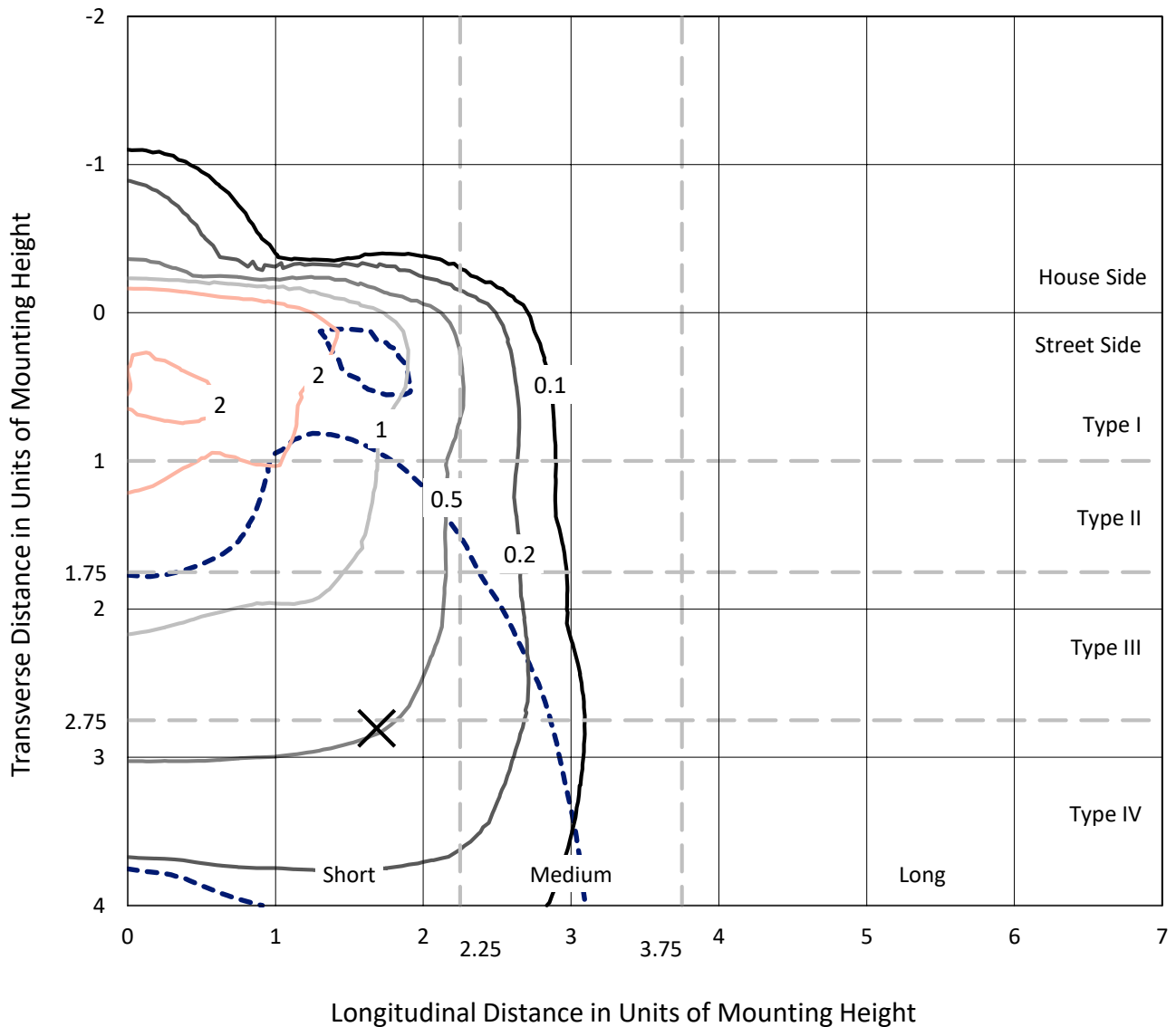
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

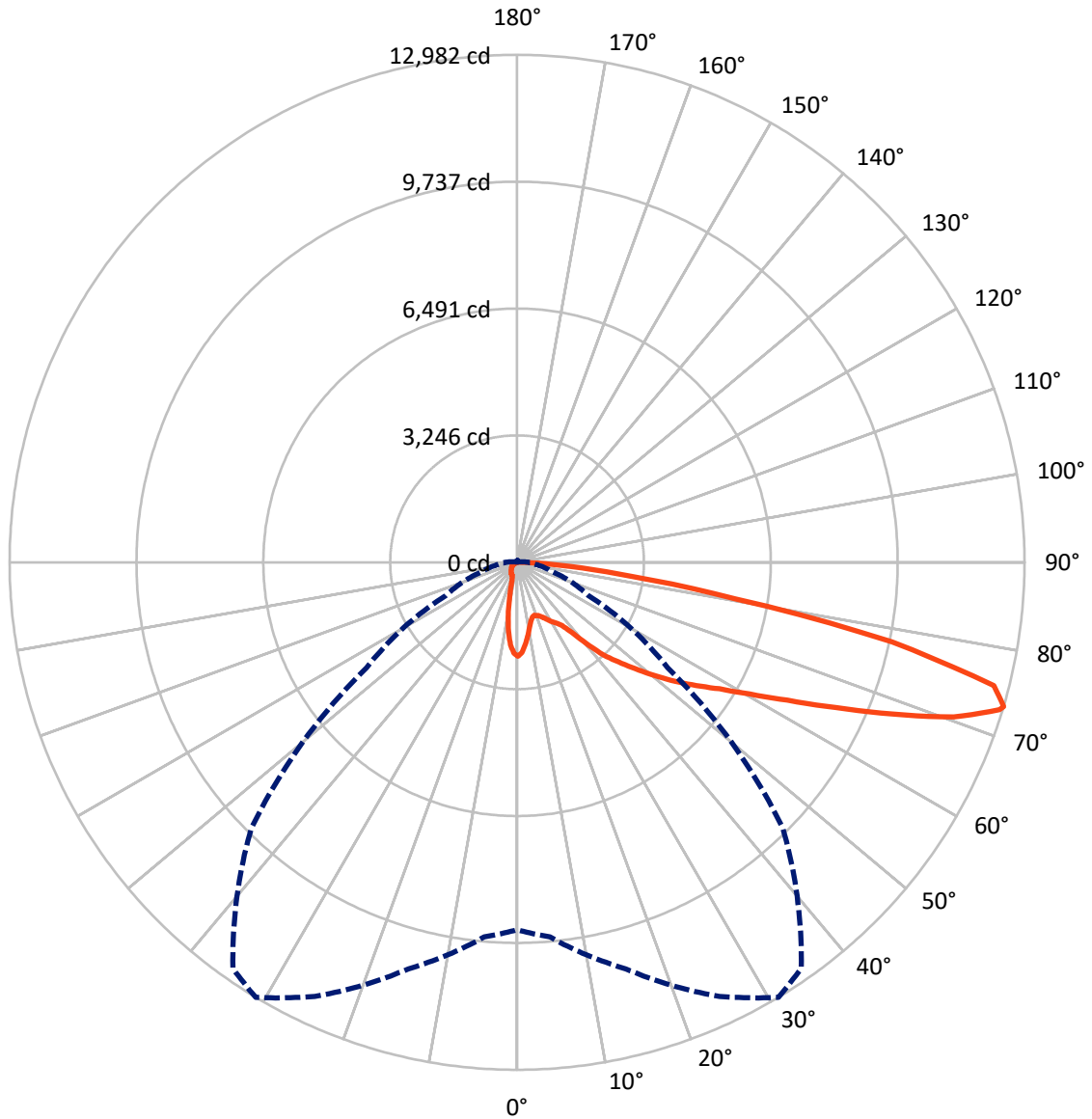
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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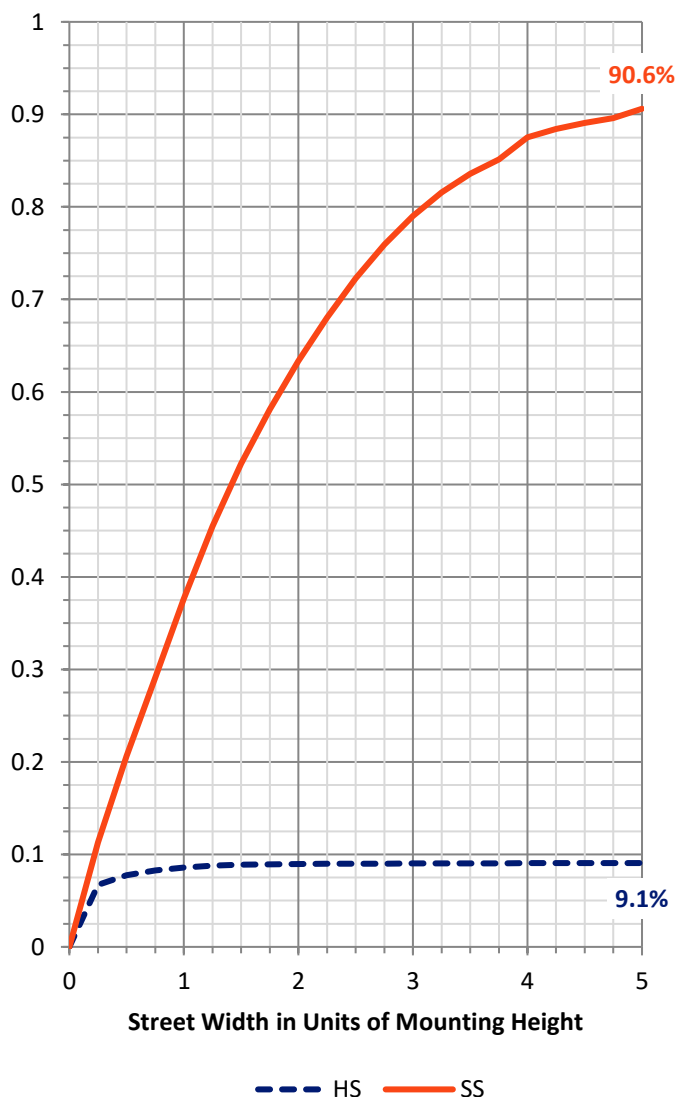
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1273.1	0.0	1273.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	12692.9	0.0	12692.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	13966.0	0.0	13966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	1.4
10°-20°	432.6	3.1
20°-30°	648.1	4.6
30°-40°	1031.2	7.4
40°-50°	1841.4	13.2
50°-60°	2857.4	20.5
60°-70°	3798.5	27.2
70°-80°	2857.3	20.5
80°-90°	300.2	2.1
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°	13966.0	100.0
0°-180°	13966.0	100.0

Coefficient of Utilization



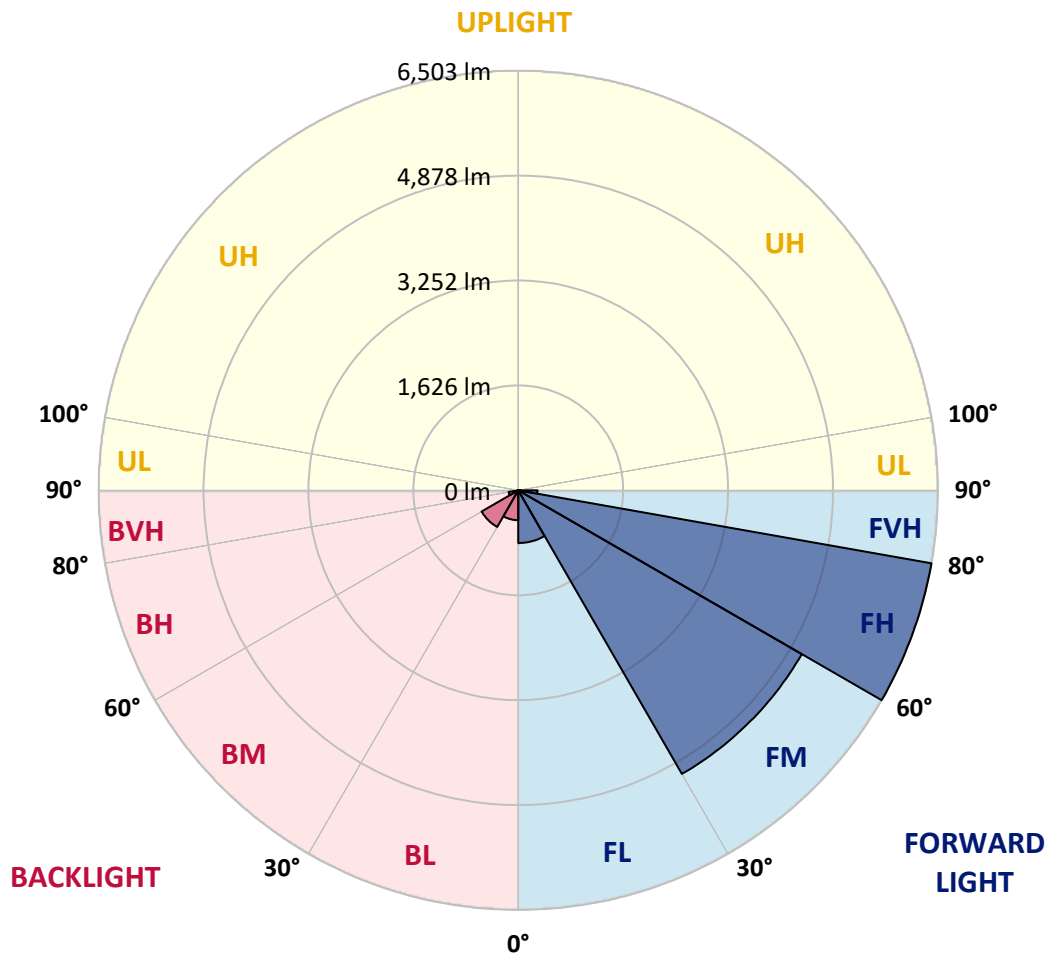
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	817.0	5.9			
FM (30°-60°)	5074.8	36.3			
FH (60°-80°)	6503.4	46.6			G3/7500
FVH (80°-90°)	297.7	2.1			G3/500
BL (0°-30°)	462.9	3.3	B1/500		
BM (30°-60°)	655.3	4.7	B1/1000		
BH (60°-80°)	152.3	1.1	B1/500		G1/500
BVH (80°-90°)	2.5	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9
2.5°	2277.1	2286.7	2296.9	2299.0	2316.1	2316.8	2341.4	2359.8	2378.3	2396.0	2402.2
5°	2043.4	2059.1	2077.6	2096.0	2132.2	2146.6	2206.7	2268.2	2327.0	2383.1	2410.4
7.5°	1794.0	1811.7	1837.7	1883.5	1923.8	1951.8	2046.8	2156.2	2265.5	2368.7	2428.2
10°	1566.4	1582.8	1610.1	1658.6	1720.8	1759.1	1886.9	2038.6	2199.2	2355.7	2454.8
12.5°	1421.5	1430.4	1445.4	1497.4	1553.4	1596.5	1746.8	1934.7	2144.5	2355.0	2497.9
15°	1394.8	1397.6	1385.3	1408.5	1452.3	1493.9	1646.3	1850.7	2102.9	2366.0	2553.9
17.5°	1437.2	1435.9	1394.8	1392.1	1427.0	1461.1	1597.1	1792.6	2073.5	2391.3	2626.4
20°	1501.5	1496.7	1425.6	1412.6	1449.5	1481.6	1593.7	1770.7	2062.5	2433.6	2714.5
22.5°	1586.9	1578.7	1467.3	1453.6	1493.3	1526.7	1636.1	1791.9	2072.1	2490.4	2817.0
25°	1692.8	1680.5	1539.0	1524.0	1564.3	1597.8	1711.9	1852.7	2100.8	2559.4	2946.9
27.5°	1812.4	1794.6	1653.9	1614.9	1660.7	1695.5	1813.1	1945.7	2145.9	2632.5	3106.1
30°	1925.2	1901.9	1774.8	1710.6	1766.6	1805.6	1922.4	2056.4	2218.4	2745.3	3324.1
32.5°	2038.6	2012.7	1882.8	1806.3	1856.8	1899.2	2035.2	2208.8	2354.4	2917.5	3613.9
35°	2299.7	2272.3	2113.1	1986.7	1986.0	2009.9	2193.1	2417.2	2534.1	3157.4	3959.7
37.5°	2739.1	2723.4	2571.7	2331.8	2267.6	2240.9	2408.3	2666.0	2792.4	3487.5	4349.9
40°	3220.2	3206.6	3036.4	2819.1	2721.3	2655.7	2717.2	3012.5	3157.4	3890.7	4748.4
42.5°	3763.6	3698.6	3395.2	3330.3	3242.8	3192.9	3137.5	3439.6	3605.7	4329.4	5143.4
45°	4257.0	4147.6	3754.0	3655.6	3635.8	3648.1	3678.8	4013.7	4110.0	4850.9	5537.0
47.5°	4550.8	4464.7	4162.7	4068.4	4062.9	4144.2	4376.6	4662.2	4612.4	5305.3	5883.5
50°	4830.4	4752.5	4501.6	4524.9	4550.2	4660.9	5168.6	5329.3	5070.9	5717.4	6201.3
52.5°	5056.6	4937.7	4806.4	4937.0	5061.4	5239.7	5986.0	5927.9	5396.2	6045.5	6473.3
55°	5187.1	5133.1	5196.7	5327.9	5561.6	5851.4	6757.6	6426.1	5634.1	6344.8	6654.4
57.5°	5665.5	5559.6	5686.0	5799.4	6104.2	6509.5	7418.4	6797.2	5805.6	6530.0	6696.1
60°	6244.3	6158.9	6233.4	6422.0	6833.4	7309.8	8036.2	7100.0	5895.1	6648.9	6588.1
62.5°	7165.6	7052.8	7006.3	7217.5	7762.9	8283.0	8505.1	7309.8	5875.3	6596.3	6217.7
65°	8399.8	8283.0	8075.2	8266.6	8960.2	9327.2	9029.2	7354.2	5738.6	6170.5	5281.4
67.5°	9664.1	9579.4	9401.7	9724.3	10350.3	10468.5	9583.5	7246.2	5298.5	5003.3	3731.4
70°	10499.3	10463.0	10578.5	11292.0	11850.4	11816.2	10092.0	6666.0	4129.9	3076.7	1845.9
72.5°	9897.2	10070.8	10923.7	12217.4	12899.4	12620.6	9830.9	5118.8	2360.5	1183.7	533.7
73°	9398.3	9620.4	10768.5	12252.2	12982.1	12676.6	9611.5	4698.5	2012.0	934.2	404.6
75°	6538.2	6810.9	8915.1	11410.9	12595.3	12078.0	8011.6	2875.8	932.2	414.1	163.3
77.5°	3174.5	3376.1	4909.0	8244.7	9795.4	9436.6	4987.5	1071.6	421.0	259.0	75.2
80°	1185.0	1317.6	2130.9	4196.2	5660.7	5809.0	2193.8	405.3	280.2	208.4	38.3
82.5°	310.3	345.8	785.9	1871.2	2901.1	3036.4	691.6	204.3	205.0	171.5	23.2
85°	99.1	113.4	245.3	839.9	1366.8	1200.1	180.4	99.1	149.0	127.8	13.0
87.5°	12.3	15.7	77.9	197.5	301.4	167.4	28.0	29.4	63.6	71.1	7.5
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°	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9
2.5°	2408.3	2404.9	2405.6	2387.8	2376.2	2353.0	2329.1	2318.1	2306.5	2301.7	2306.5
5°	2420.6	2414.5	2396.7	2342.1	2284.0	2208.8	2138.4	2085.1	2018.1	1999.7	2018.8
7.5°	2439.8	2427.5	2375.5	2264.1	2135.0	1991.5	1830.2	1712.6	1616.3	1554.1	1576.6
10°	2467.8	2444.6	2340.0	2150.7	1919.7	1665.5	1436.5	1258.2	1131.7	1079.8	1077.7
12.5°	2515.0	2471.2	2296.3	2003.1	1656.6	1317.6	1017.6	824.2	721.7	655.4	654.0
15°	2566.9	2502.7	2240.9	1826.1	1350.4	943.8	655.4	508.5	442.2	421.0	418.2
17.5°	2630.5	2538.9	2169.2	1608.1	1029.9	625.3	427.8	385.4	382.7	380.7	380.7
20°	2710.4	2581.9	2076.9	1358.6	730.6	417.6	363.6	366.3	367.7	364.9	365.6
22.5°	2803.4	2625.7	1966.9	1090.7	494.1	349.2	347.9	351.3	352.6	351.3	352.0
25°	2911.3	2676.2	1832.9	809.8	356.7	331.5	334.9	339.7	343.1	343.1	343.1
27.5°	3045.3	2737.8	1671.6	565.2	308.2	313.0	322.6	331.5	336.2	337.6	337.6
30°	3219.6	2814.3	1478.2	387.5	280.2	288.4	306.2	323.3	332.1	333.5	334.2
32.5°	3439.6	2900.4	1254.1	286.3	256.3	262.4	281.6	310.3	327.4	330.1	330.1
35°	3691.8	3000.2	1012.8	249.4	239.2	241.2	256.3	289.1	319.2	326.7	327.4
37.5°	3967.9	3098.6	770.2	233.0	224.8	224.8	235.8	263.8	299.3	322.6	325.3
40°	4225.5	3158.0	539.9	220.1	211.9	211.9	221.4	241.9	275.4	310.3	317.8
42.5°	4463.4	3178.6	375.9	207.8	199.6	201.6	209.8	226.2	251.5	286.3	293.2
45°	4708.0	3175.1	274.0	193.4	187.3	193.4	199.6	211.9	230.3	250.1	251.5
47.5°	4892.6	3146.4	217.3	179.7	175.6	183.8	189.3	197.5	207.8	206.4	206.4
50°	5065.5	3076.7	175.0	161.3	164.0	173.6	176.3	179.1	179.7	166.8	165.4
52.5°	5196.7	2968.1	140.1	141.5	152.4	162.0	159.2	155.1	148.3	132.6	129.8
55°	5240.4	2758.9	110.0	116.9	135.3	147.6	137.4	128.5	115.5	102.5	99.8
57.5°	5161.1	2489.0	89.5	90.9	114.1	124.4	112.8	102.5	88.2	77.2	75.2
60°	4993.0	2189.0	73.8	68.3	88.2	97.0	89.5	79.3	66.3	58.1	57.4
62.5°	4659.5	1869.1	60.8	53.3	67.0	74.5	69.7	62.2	51.3	45.8	45.1
65°	3958.3	1495.3	49.2	43.1	51.9	58.1	54.0	48.5	40.3	36.2	35.5
67.5°	2763.0	1010.8	40.3	35.5	41.0	45.8	42.4	39.6	32.1	31.4	32.1
70°	1332.7	487.3	33.5	28.7	32.1	35.5	34.2	32.1	30.8	35.5	41.0
72.5°	382.0	163.3	26.7	23.9	26.0	28.0	29.4	28.7	33.5	43.1	49.9
73°	293.9	131.9	25.3	22.6	24.6	27.3	28.7	28.0	34.2	43.7	49.9
75°	125.7	63.6	19.1	18.5	20.5	23.9	25.3	25.3	34.2	44.4	47.8
77.5°	56.7	34.2	12.3	14.4	17.8	19.1	21.2	21.2	27.3	34.2	34.2
80°	32.1	18.5	9.6	10.9	13.0	13.0	13.0	11.6	12.3	13.7	15.0
82.5°	20.5	12.3	7.5	8.9	8.2	6.8	5.5	5.5	4.8	5.5	6.8
85°	11.6	6.8	6.8	5.5	3.4	2.7	3.4	2.7	0.7	0.0	0.7
87.5°	6.8	4.1	2.1	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)