

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: P322887

Luminaire Tested: **GAN-SA3C-740-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15650 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

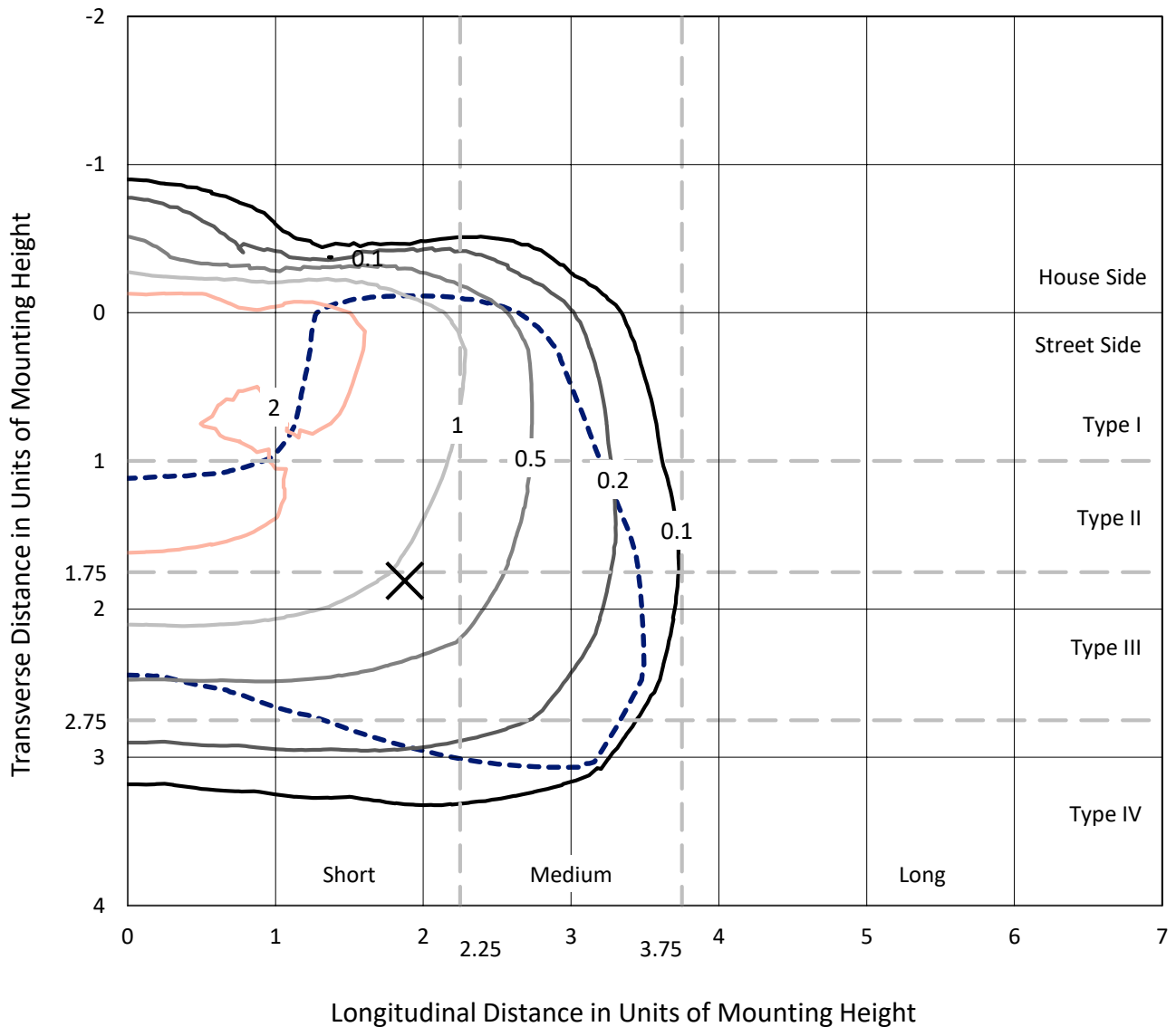
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

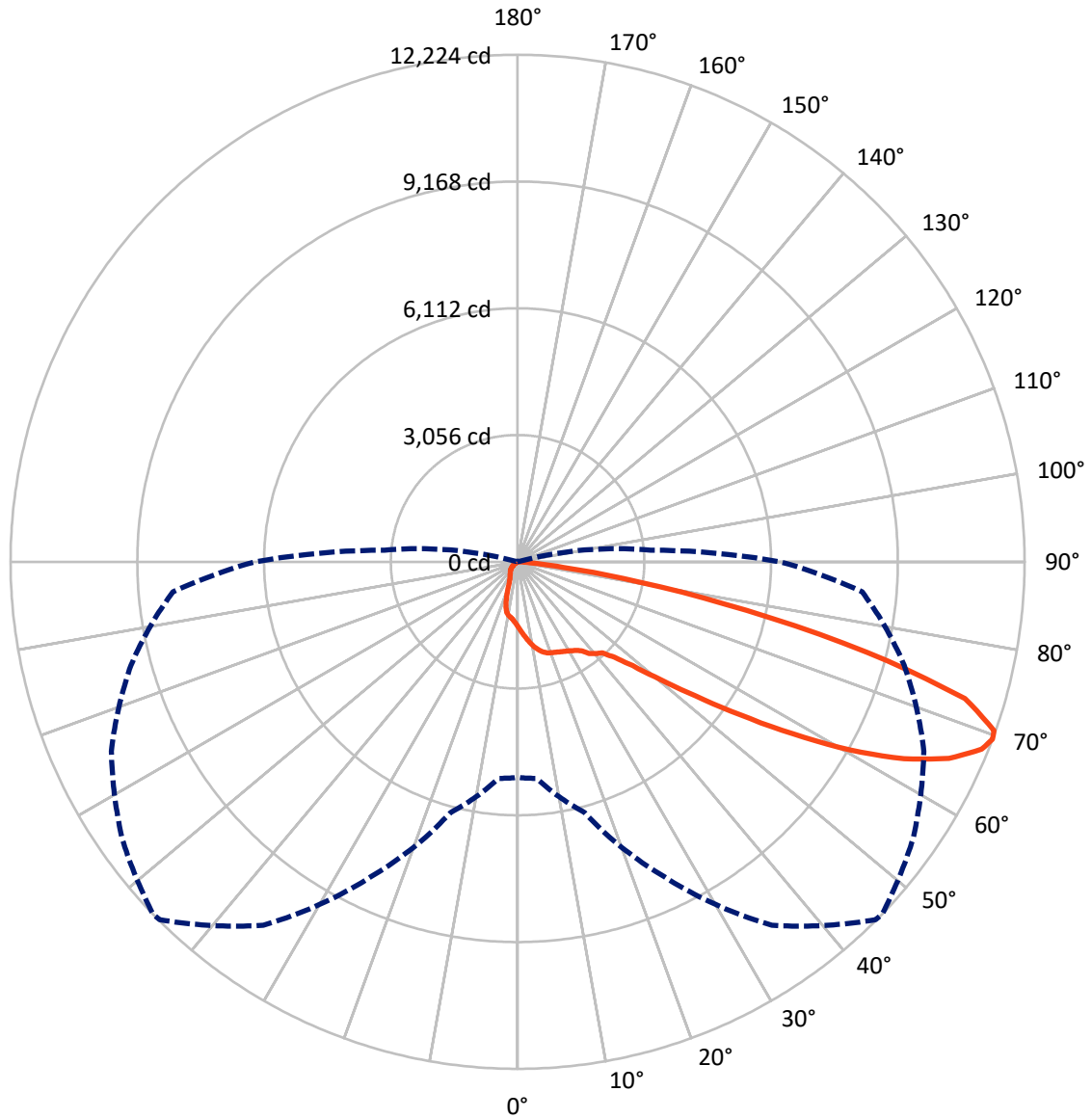
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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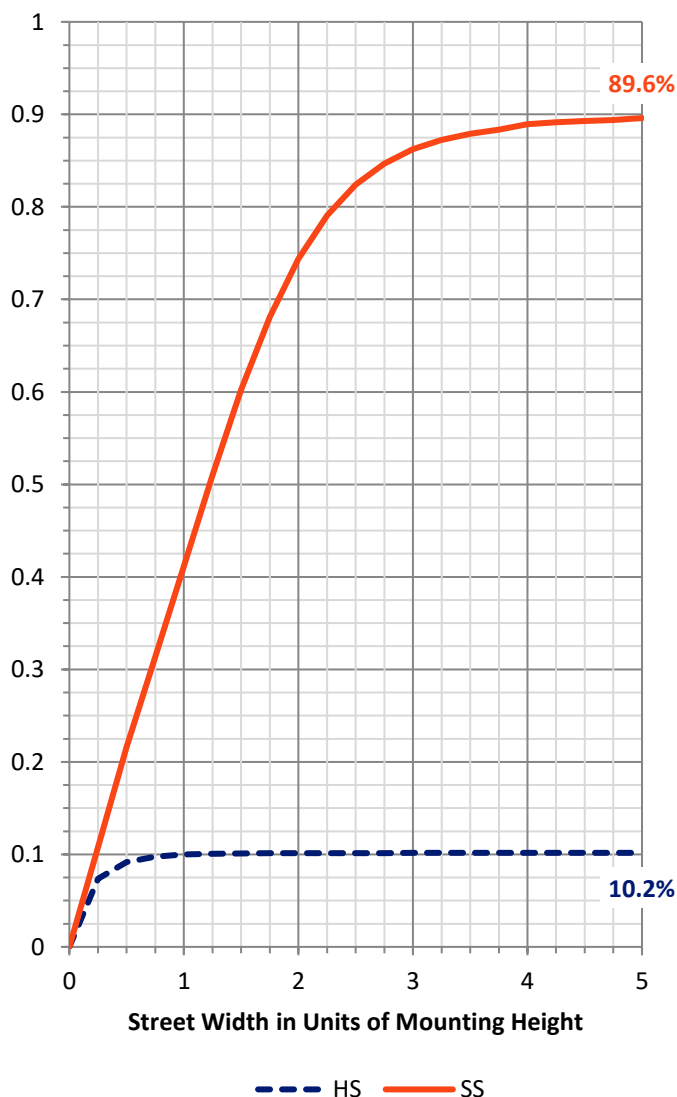
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1606.1	0.0	1606.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	14043.9	0.0	14043.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	15650.0	0.0	15650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	1.0
10°-20°	473.5	3.0
20°-30°	744.7	4.8
30°-40°	1067.8	6.8
40°-50°	1845.6	11.8
50°-60°	3646.2	23.3
60°-70°	5095.9	32.6
70°-80°	2461.9	15.7
80°-90°	158.2	1.0
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°	15650.0	100.0
0°-180°	15650.0	100.0

Coefficient of Utilization



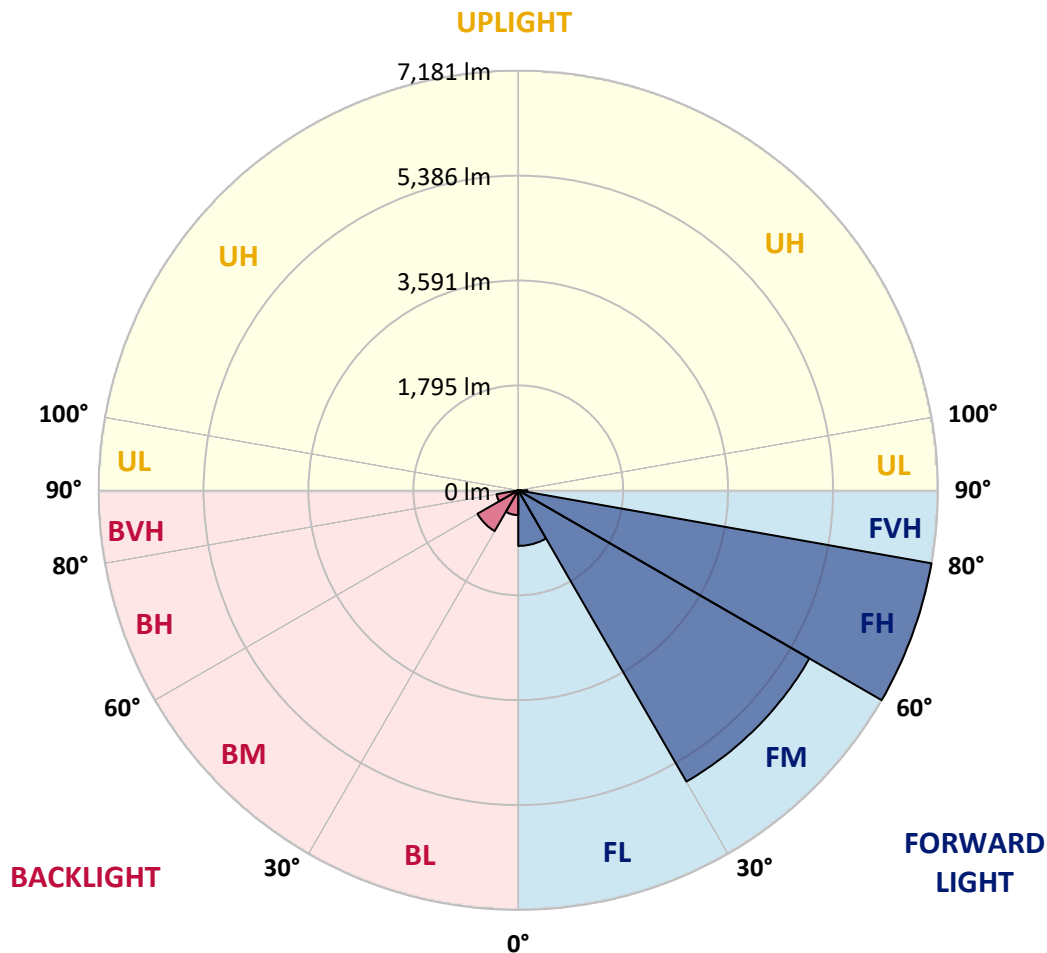
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	950.9	6.1			
FM (30°-60°)	5754.9	36.8			
FH (60°-80°)	7181.2	45.9			G3/7500
FVH (80°-90°)	156.9	1.0			G2/225
BL (0°-30°)	423.3	2.7	B1/500		
BM (30°-60°)	804.9	5.1	B1/1000		
BH (60°-80°)	376.6	2.4	B1/500		G1/500
BVH (80°-90°)	1.3	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°	35°	45°	46°	55°	65°	75°	85°
0°	1568.1	1568.1	1568.1	1568.1	1568.1	1568.1	1568.1	1568.1	1568.1	1568.1	1568.1
2.5°	1742.0	1739.8	1729.5	1725.1	1700.2	1685.5	1679.6	1661.3	1634.8	1608.4	1579.1
5°	1940.1	1939.4	1920.3	1901.9	1855.0	1811.0	1802.9	1760.3	1700.9	1645.1	1589.4
7.5°	2142.6	2133.1	2114.0	2078.8	2010.5	1940.1	1933.5	1873.3	1788.9	1708.2	1628.2
10°	2314.3	2308.4	2283.5	2229.9	2150.0	2070.0	2061.9	1987.8	1892.4	1793.3	1691.3
12.5°	2447.9	2443.5	2410.4	2343.7	2258.6	2175.6	2164.6	2098.6	1996.6	1885.8	1765.5
15°	2529.3	2527.1	2486.8	2415.6	2331.9	2260.0	2250.5	2192.5	2097.9	1981.9	1846.2
17.5°	2548.4	2549.1	2507.3	2435.4	2366.4	2315.1	2307.7	2263.7	2184.4	2069.2	1926.9
20°	2505.8	2514.6	2477.2	2414.8	2372.3	2345.1	2339.3	2312.9	2246.1	2137.5	1991.5
22.5°	2445.7	2450.1	2424.4	2382.6	2364.9	2370.1	2367.1	2352.5	2296.0	2196.2	2055.3
25°	2409.0	2409.0	2393.6	2358.3	2370.1	2401.6	2402.4	2399.4	2354.7	2268.1	2133.1
27.5°	2407.5	2403.1	2385.5	2359.1	2391.4	2439.8	2442.7	2462.5	2434.7	2355.4	2229.9
30°	2466.2	2461.1	2423.7	2389.2	2430.3	2482.4	2489.7	2533.0	2519.0	2450.1	2337.8
32.5°	2603.4	2585.1	2502.2	2445.7	2476.5	2538.9	2548.4	2617.4	2639.4	2566.7	2442.0
35°	2791.3	2733.3	2613.7	2552.8	2555.7	2621.0	2629.8	2731.1	2796.4	2673.9	2522.7
37.5°	3050.3	3021.7	2827.2	2664.3	2677.5	2776.6	2802.3	2912.3	2894.0	2732.6	2614.4
40°	3618.2	3573.5	3366.5	2976.9	2794.2	2902.8	2910.9	2969.6	2971.0	2865.4	2805.2
42.5°	4391.6	4373.3	4155.4	3544.1	3023.9	2987.2	3001.9	3100.9	3211.7	3145.7	3142.7
45°	5247.9	5238.4	5007.3	4297.0	3488.4	3263.8	3282.2	3415.0	3627.0	3641.7	3734.9
47.5°	5937.0	5932.5	5799.7	5137.1	4199.4	3732.7	3738.6	3879.5	4252.2	4436.4	4585.3
50°	6565.1	6586.3	6481.4	6046.3	5168.0	4467.2	4453.3	4547.2	5145.9	5447.5	5632.4
52.5°	7438.3	7468.3	7174.1	6894.5	6184.2	5378.6	5367.5	5465.9	6220.2	6446.2	6479.2
55°	8209.4	8158.1	7925.5	7844.8	7423.6	6504.2	6501.2	6587.8	7259.2	7355.3	7416.2
57.5°	8549.9	8530.1	8642.4	8827.3	8721.6	7834.5	7827.9	7761.8	8188.9	8199.2	8386.3
60°	8764.9	8789.1	9133.3	9703.4	9966.8	9266.1	9223.5	8820.7	9076.8	9054.0	9254.3
62.5°	8603.5	8651.2	9270.5	10220.7	10898.7	10515.7	10455.5	9790.7	9835.5	9757.0	9943.3
65°	7746.4	7820.5	8835.4	10123.1	11361.0	11492.3	11431.4	10647.0	10437.9	10308.8	10205.3
67.5°	6289.9	6333.9	7393.5	9274.1	11152.6	12075.0	12062.5	11397.7	10892.9	10215.6	9412.8
69°	5198.0	5241.3	6261.3	8380.4	10694.0	12199.7	12223.9	11638.4	10806.3	9649.1	8340.1
70°	4402.6	4448.9	5399.1	7614.4	10162.0	12141.7	12185.0	11615.6	10558.3	8993.1	7398.6
72.5°	2309.2	2348.8	3324.0	5245.7	8284.3	11148.9	11280.3	10633.8	8949.8	6531.3	4374.8
75°	725.7	748.4	1298.0	2742.1	5672.1	8668.8	8698.9	8341.5	6355.2	3592.5	1822.0
77.5°	276.6	270.0	432.2	1010.4	2867.6	5458.5	5642.7	5212.7	3335.0	1270.2	420.5
80°	149.0	149.7	224.5	418.3	1226.9	2805.2	2960.8	2526.4	1185.0	396.2	96.9
82.5°	64.6	67.5	126.2	221.6	563.5	1034.6	1112.4	926.0	452.7	266.4	36.0
85°	13.9	15.4	60.9	120.3	229.7	290.6	304.5	300.1	288.4	206.9	13.9
87.5°	0.0	0.0	27.1	43.3	58.0	66.0	58.0	75.6	159.2	139.4	7.3
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°	1568.1	1568.1	1568.1	1568.1	1568.1	1568.1	1568.1	1568.1	1568.1	1568.1	1568.1
2.5°	1569.5	1556.3	1533.6	1508.6	1491.0	1472.7	1458.0	1451.4	1444.1	1438.9	1445.5
5°	1566.6	1540.9	1496.9	1454.3	1423.5	1398.6	1378.0	1370.0	1361.9	1356.0	1355.3
7.5°	1592.3	1556.3	1488.8	1426.5	1378.8	1345.0	1317.1	1305.4	1295.8	1291.4	1287.8
10°	1641.4	1595.2	1505.0	1423.5	1361.9	1304.6	1244.5	1198.3	1168.2	1154.2	1149.1
12.5°	1705.3	1647.3	1535.8	1438.9	1349.4	1239.3	1111.7	1001.6	930.4	906.9	893.0
15°	1780.1	1708.2	1576.1	1458.7	1303.9	1102.9	886.4	742.6	676.5	663.3	648.7
17.5°	1852.0	1772.8	1624.6	1462.4	1204.1	881.3	649.4	551.8	526.1	534.9	537.1
20°	1915.1	1836.6	1672.3	1430.1	1022.9	661.1	502.6	478.4	488.0	504.8	507.8
22.5°	1979.0	1898.3	1716.3	1345.0	791.0	501.9	452.7	458.6	468.1	485.0	488.0
25°	2056.8	1973.1	1757.4	1188.7	593.6	427.1	430.0	438.8	448.3	463.7	465.2
27.5°	2146.3	2067.8	1784.5	985.5	440.3	392.6	402.1	415.3	424.9	439.5	442.5
30°	2265.2	2192.5	1793.3	774.9	369.1	361.7	366.2	382.3	396.2	409.4	411.6
32.5°	2376.7	2315.8	1764.0	584.8	341.9	333.1	333.1	342.7	358.8	371.3	374.2
35°	2479.4	2439.8	1670.1	427.8	321.4	306.7	299.4	299.4	309.7	319.9	322.9
37.5°	2615.2	2613.7	1518.2	341.2	301.6	284.7	269.3	257.6	253.9	256.1	257.6
40°	2847.8	2850.0	1320.1	306.0	284.7	262.0	238.5	217.2	197.4	190.8	190.0
42.5°	3211.0	3178.0	1112.4	289.1	270.0	238.5	203.3	174.6	143.8	134.3	133.5
45°	3787.7	3591.8	892.3	273.7	254.6	212.1	168.0	129.1	104.2	96.9	96.9
47.5°	4627.9	4135.5	691.2	256.8	234.1	182.0	126.9	93.2	76.3	72.6	73.4
50°	5496.7	4668.3	529.8	235.5	209.1	150.4	93.9	67.5	58.0	58.0	58.7
52.5°	6267.1	5058.6	413.1	212.8	178.3	118.1	71.2	52.8	48.4	47.7	48.4
55°	6988.4	5310.3	316.3	186.4	141.6	88.1	54.3	43.3	40.4	38.9	38.2
57.5°	7684.1	5435.1	237.0	150.4	102.7	63.8	43.3	36.7	33.8	31.6	30.8
60°	8147.1	5333.8	162.9	110.8	71.2	46.2	36.0	31.6	27.9	25.7	24.9
62.5°	8408.3	5057.2	104.9	80.0	50.6	34.5	28.6	26.4	21.3	19.1	19.1
65°	8302.6	4600.8	73.4	57.2	36.7	25.7	21.3	21.3	15.4	12.5	11.7
67.5°	7357.5	3886.8	55.8	42.6	26.4	19.1	16.1	18.3	9.5	5.9	5.9
69°	6330.3	3221.3	47.7	35.2	22.0	15.4	13.9	16.9	6.6	4.4	3.7
70°	5501.8	2778.8	43.3	30.8	18.3	13.2	12.5	16.1	6.6	3.7	2.9
72.5°	3291.7	1549.7	33.0	22.0	11.7	10.3	10.3	18.3	6.6	3.7	2.9
75°	1330.3	545.9	24.2	15.4	8.8	8.8	12.5	23.5	5.9	2.9	2.2
77.5°	301.6	119.6	13.9	9.5	5.9	8.8	14.7	18.3	3.7	1.5	0.0
80°	73.4	29.4	8.8	5.9	3.7	6.6	11.0	10.3	0.7	0.0	0.0
82.5°	24.2	10.3	3.7	2.9	0.7	2.2	5.1	2.9	0.0	0.0	0.0
85°	10.3	5.9	1.5	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0
87.5°	6.6	2.2	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)