

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: P322188

Luminaire Tested: **GAN-SA4A-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322188
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-SA4A-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA 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: 12476 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

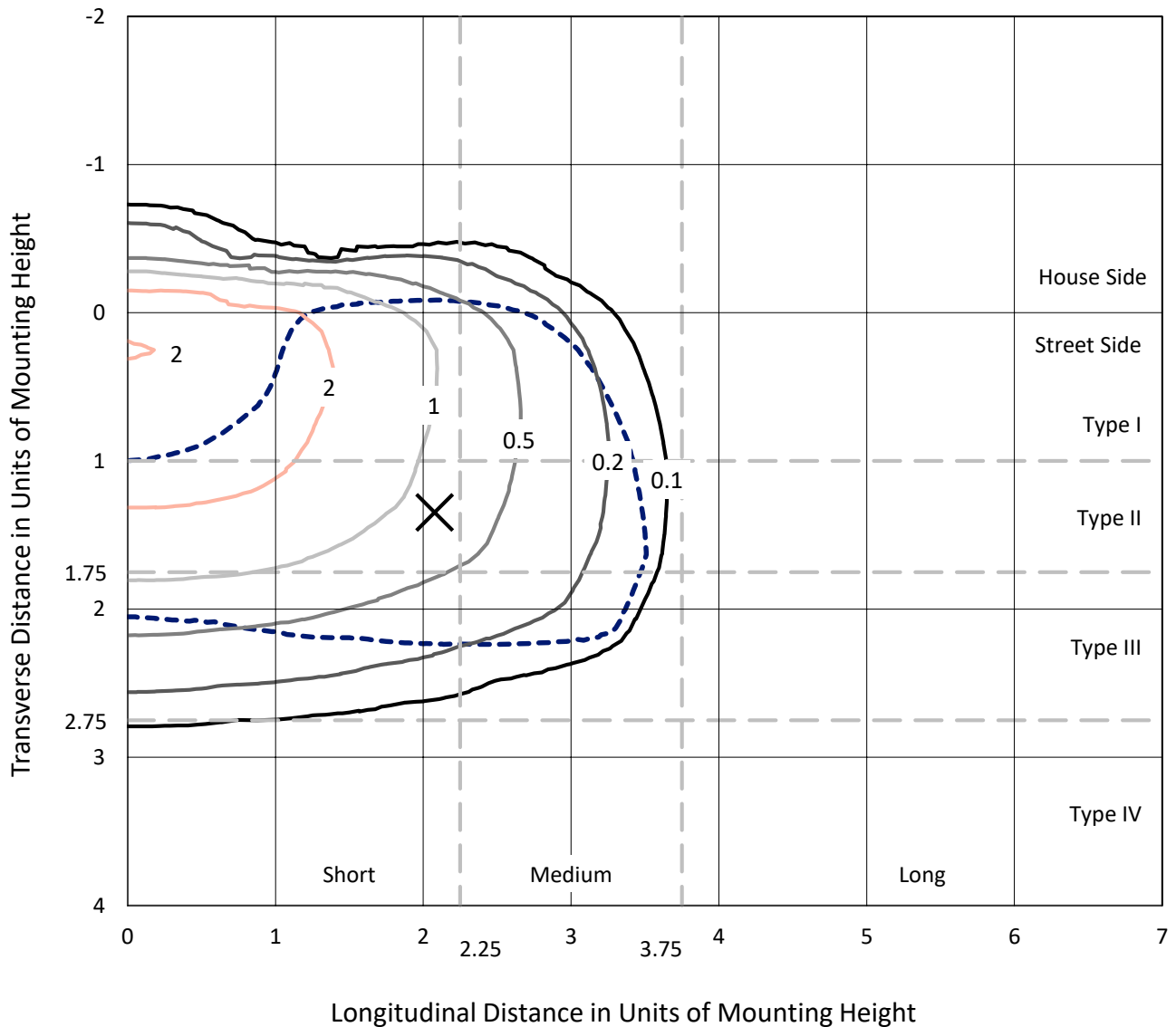
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

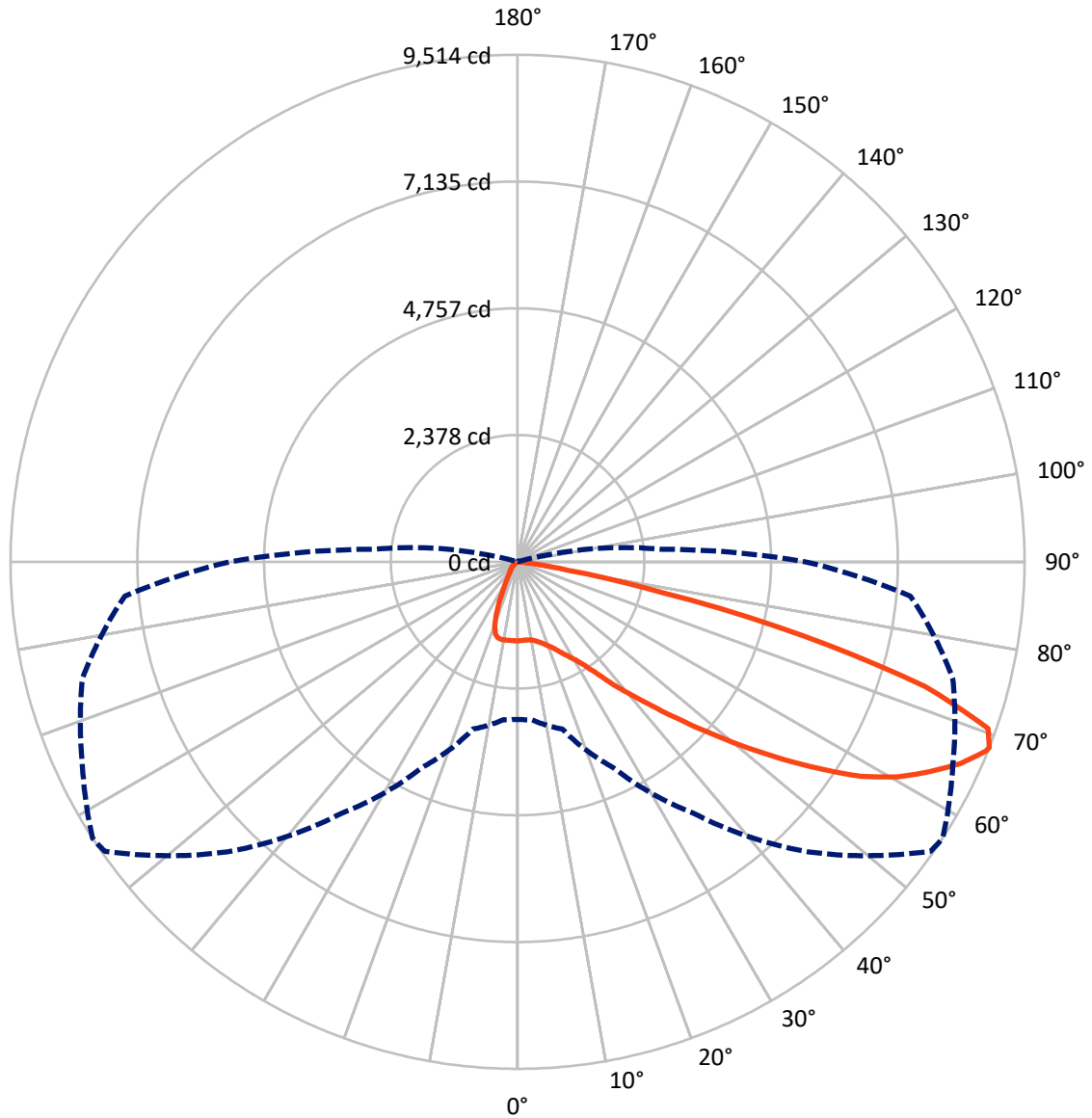
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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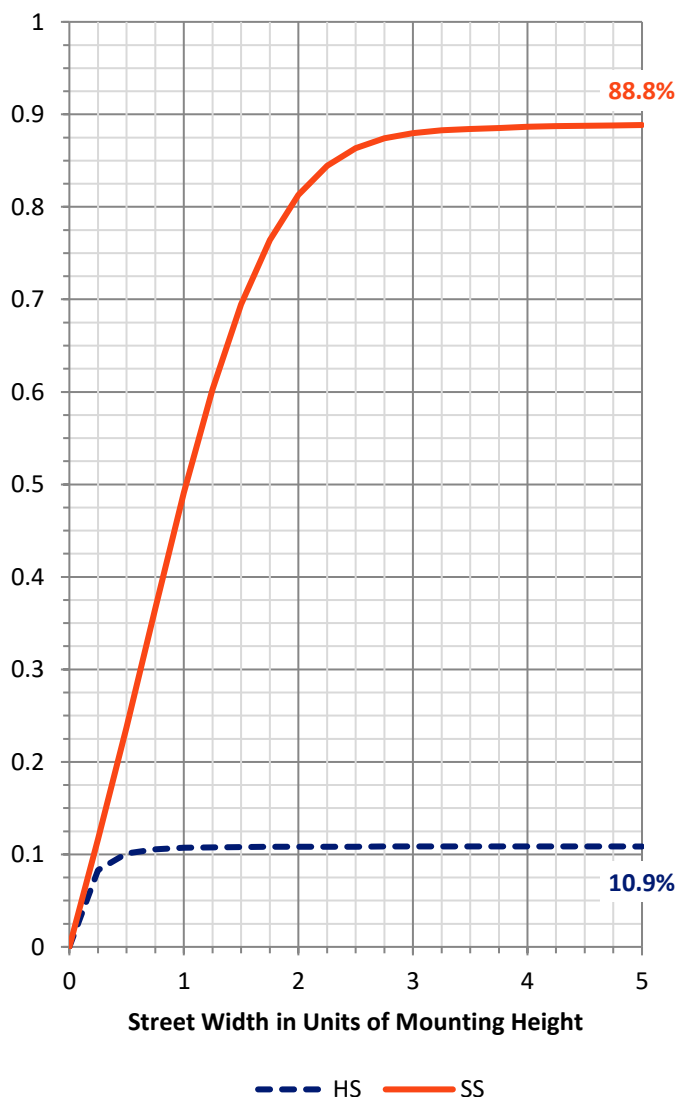
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1368.1	0.0	1368.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	11107.9	0.0	11107.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	12476.0	0.0	12476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	1.1
10°-20°	384.5	3.1
20°-30°	663.2	5.3
30°-40°	1144.7	9.2
40°-50°	1958.0	15.7
50°-60°	3132.6	25.1
60°-70°	3619.4	29.0
70°-80°	1383.0	11.1
80°-90°	51.8	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°	12476.0	100.0
0°-180°	12476.0	100.0

Coefficient of Utilization



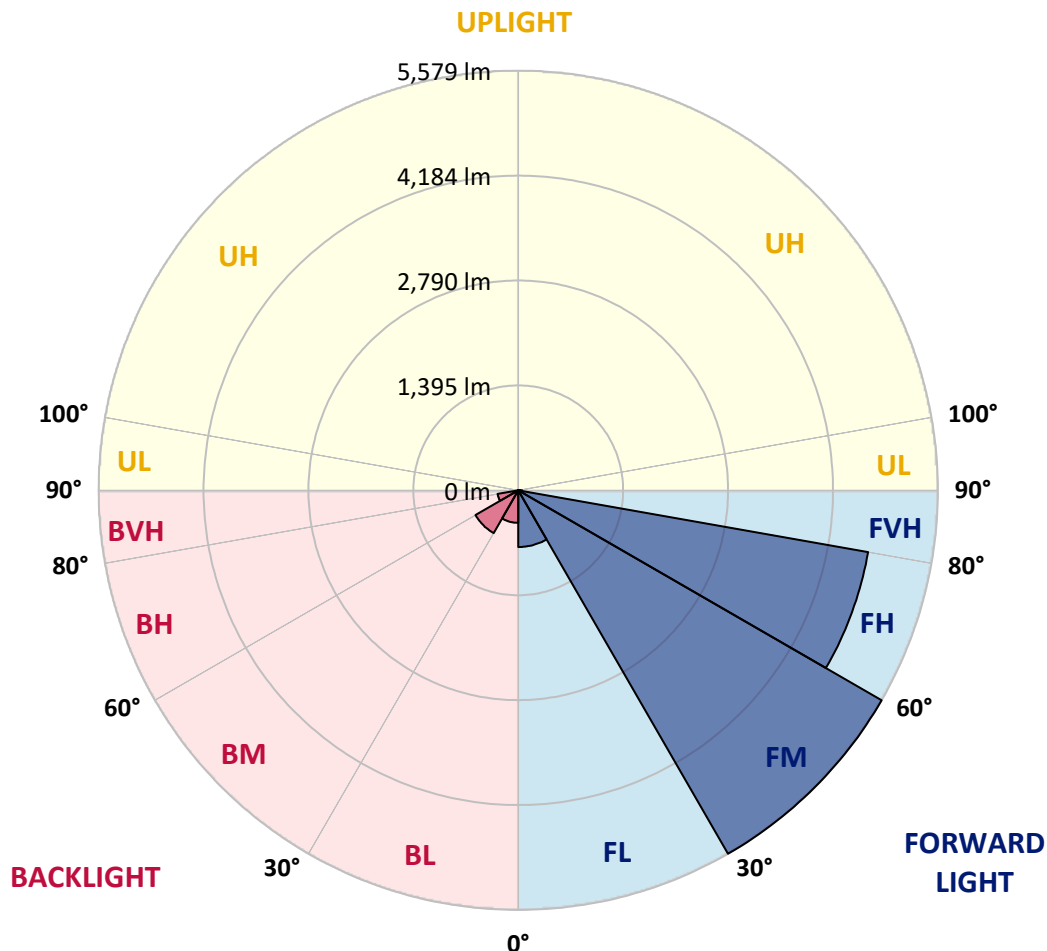
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	754.1	6.0			
FM (30°-60°)	5579.2	44.7			
FH (60°-80°)	4723.8	37.9			G2/5000
FVH (80°-90°)	50.9	0.4			G1/100
BL (0°-30°)	432.4	3.5	B1/500		
BM (30°-60°)	656.2	5.3	B1/1000		
BH (60°-80°)	278.6	2.2	B1/500		G1/500
BVH (80°-90°)	0.9	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5
2.5°	1447.7	1454.2	1458.9	1461.8	1465.4	1473.0	1475.4	1478.9	1480.7	1480.7	1484.8
5°	1390.4	1397.5	1407.6	1415.8	1432.3	1453.6	1468.9	1474.8	1485.4	1494.9	1500.2
7.5°	1337.4	1345.6	1357.4	1376.9	1405.2	1439.4	1471.3	1479.5	1500.2	1520.2	1530.3
10°	1303.1	1309.6	1325.0	1352.7	1389.9	1437.6	1482.5	1492.5	1527.9	1561.5	1580.4
12.5°	1291.3	1297.2	1313.2	1344.4	1390.4	1446.5	1508.4	1523.2	1575.1	1624.1	1650.6
15°	1308.5	1309.6	1326.7	1356.2	1401.7	1468.3	1551.5	1569.2	1634.7	1698.4	1731.4
17.5°	1374.5	1369.2	1378.1	1391.0	1427.0	1497.2	1596.9	1623.5	1710.8	1785.7	1817.0
20°	1539.7	1539.7	1519.6	1484.2	1484.8	1542.1	1658.3	1688.4	1795.1	1881.9	1910.2
22.5°	1822.3	1817.0	1776.8	1690.1	1610.5	1619.3	1733.2	1772.1	1896.6	1989.2	1998.7
25°	2162.1	2155.6	2093.6	1971.5	1833.5	1744.4	1834.7	1879.5	2017.5	2099.5	2080.1
27.5°	2521.9	2516.6	2455.3	2303.7	2107.2	1943.8	1955.6	1998.1	2140.8	2221.7	2159.7
30°	2870.6	2872.3	2811.6	2655.8	2433.4	2198.1	2109.0	2133.8	2260.6	2342.6	2254.1
32.5°	3202.1	3204.5	3152.0	2977.9	2770.3	2493.6	2321.3	2314.9	2399.8	2480.6	2379.2
35°	3497.7	3503.6	3467.6	3332.5	3112.4	2822.8	2596.8	2581.5	2597.4	2688.9	2570.9
37.5°	3782.6	3786.1	3759.0	3645.1	3461.1	3184.4	2944.9	2923.1	2888.9	2959.1	2824.0
40°	4094.7	4085.8	4054.5	3951.3	3793.2	3583.8	3318.9	3281.2	3221.6	3284.1	3156.7
42.5°	4384.9	4374.9	4380.2	4263.4	4130.1	3994.4	3754.9	3690.0	3655.2	3727.1	3564.9
45°	4747.7	4742.4	4760.1	4658.6	4550.7	4452.2	4254.5	4183.7	4168.4	4252.8	4058.7
47.5°	5105.8	5118.8	5173.6	5130.6	5086.9	5000.2	4783.7	4751.8	4761.3	4863.3	4579.6
50°	5404.3	5419.6	5570.1	5619.6	5682.7	5632.0	5414.9	5395.4	5432.6	5524.6	5140.0
52.5°	5620.2	5651.5	5838.5	6066.8	6296.8	6331.1	6114.6	6096.9	6147.0	6161.2	5573.0
55°	5770.0	5797.8	6009.6	6427.2	6895.6	7043.1	6908.6	6840.2	6830.7	6690.9	6028.4
57.5°	5796.6	5793.6	6098.0	6660.2	7365.2	7745.7	7660.7	7593.5	7400.0	7180.5	6550.5
60°	5646.7	5663.9	6017.2	6741.1	7660.2	8277.2	8283.7	8196.4	7894.9	7656.6	7056.7
62.5°	5185.4	5255.0	5611.9	6529.3	7656.6	8491.4	8740.3	8673.6	8313.2	8046.6	7569.9
65°	4437.4	4462.2	4802.6	5803.7	7139.3	8401.7	9151.5	9126.7	8690.2	8425.3	7833.6
67.5°	3240.4	3186.8	3544.3	4570.1	6044.4	7879.0	9446.4	9477.7	8981.0	8503.2	7552.8
68°	2957.3	2973.2	3251.7	4265.1	5757.7	7694.4	9465.9	9513.7	9009.9	8452.4	7399.4
70°	1762.7	1793.4	2041.7	2936.6	4380.2	6649.6	9255.9	9365.0	8837.6	7929.2	6400.1
72.5°	450.1	486.7	721.5	1314.3	2501.9	4685.2	7813.5	7998.2	7673.1	6432.5	4320.6
75°	185.2	194.7	257.8	433.0	932.1	2110.7	5150.0	5545.3	5319.3	3851.0	1952.6
77.5°	128.0	134.5	165.8	240.1	403.5	715.6	2524.9	2810.4	2532.0	1314.3	425.9
80°	92.0	97.3	118.6	159.9	231.8	255.4	822.9	951.5	755.7	288.5	105.6
82.5°	54.9	59.0	88.5	113.9	141.0	122.1	204.7	232.4	218.9	143.4	47.2
85°	27.1	31.9	59.6	81.4	76.1	51.3	62.5	69.6	86.1	87.3	25.4
87.5°	1.8	3.5	34.8	49.0	21.2	11.8	18.3	22.4	30.7	43.1	10.6
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°	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5
2.5°	1486.6	1487.2	1483.1	1481.3	1482.5	1475.4	1472.4	1473.6	1473.6	1475.4	1472.4
5°	1501.4	1501.4	1494.3	1484.8	1479.5	1466.0	1457.1	1454.8	1453.0	1451.8	1449.4
7.5°	1533.2	1529.7	1517.3	1496.6	1478.9	1449.4	1427.0	1415.2	1409.3	1407.0	1405.2
10°	1584.5	1578.0	1557.4	1519.1	1478.3	1425.8	1376.9	1342.1	1313.2	1301.4	1294.3
12.5°	1653.6	1644.1	1609.3	1545.6	1474.2	1377.5	1271.3	1169.2	1074.3	1035.3	1015.8
15°	1733.2	1719.6	1664.8	1568.0	1450.0	1268.3	1037.7	858.9	727.4	677.8	656.6
17.5°	1814.0	1796.3	1713.1	1582.2	1377.5	1042.4	728.0	549.8	461.9	438.3	430.1
20°	1895.4	1869.5	1755.0	1571.6	1213.5	751.6	480.2	401.7	376.4	369.3	366.9
22.5°	1972.7	1932.6	1792.8	1530.3	961.0	504.4	379.9	355.1	346.9	342.7	341.6
25°	2040.0	1983.9	1825.8	1402.8	680.2	381.1	342.2	333.9	323.3	315.6	316.2
27.5°	2103.1	2035.2	1845.9	1192.8	453.7	325.6	316.8	305.6	286.1	274.9	274.9
30°	2179.2	2103.7	1860.6	917.9	333.9	287.9	280.8	263.7	237.1	222.4	222.4
32.5°	2293.6	2207.5	1851.2	644.2	276.7	253.1	236.6	213.0	184.1	169.9	169.3
35°	2468.8	2368.0	1783.9	422.4	244.2	220.0	193.5	164.6	139.2	127.4	126.8
37.5°	2704.8	2582.7	1632.9	302.0	218.9	189.4	157.5	125.7	106.8	99.1	98.5
40°	3011.0	2832.2	1417.0	244.8	195.3	159.9	121.5	97.3	84.4	78.5	79.0
42.5°	3378.5	3099.5	1158.0	211.2	172.3	131.6	95.0	76.7	68.4	64.3	63.1
45°	3786.7	3363.2	886.7	188.2	149.3	106.2	74.3	60.8	54.3	51.9	51.9
47.5°	4235.7	3619.8	648.9	168.1	124.5	82.0	59.6	49.6	44.2	42.5	41.9
50°	4643.3	3797.9	467.8	146.9	102.1	64.9	48.4	41.3	37.8	35.4	35.4
52.5°	4983.1	3854.0	344.5	123.9	82.6	51.9	40.1	35.4	31.9	30.1	30.1
55°	5282.2	3831.0	256.0	102.1	66.7	42.5	34.2	30.1	27.1	25.4	25.4
57.5°	5568.9	3756.6	191.1	83.2	53.7	34.2	28.9	25.4	22.4	21.2	21.2
60°	5803.1	3632.7	142.2	67.3	43.1	27.7	24.2	20.6	18.3	16.5	16.5
62.5°	5993.0	3495.9	104.4	55.5	34.2	21.8	18.9	17.1	13.6	11.8	11.8
65°	5994.2	3268.8	78.5	46.0	26.5	17.1	14.2	13.6	8.8	7.1	6.5
67.5°	5560.6	2818.1	60.2	39.5	20.6	13.0	10.6	11.2	4.7	2.9	2.4
68°	5403.1	2703.6	56.6	38.9	19.5	12.4	10.0	11.2	4.1	2.4	1.8
70°	4555.4	2150.9	45.4	37.8	17.1	9.4	8.3	11.2	3.5	1.8	1.2
72.5°	2913.6	1248.3	33.6	30.1	13.0	7.1	5.3	10.0	3.5	1.2	0.6
75°	1240.0	387.0	23.0	21.2	7.7	5.3	3.5	6.5	2.4	0.6	0.0
77.5°	261.3	87.3	13.6	13.0	5.3	3.5	2.4	1.8	0.6	0.0	0.0
80°	67.3	25.4	7.1	6.5	2.9	1.8	1.2	0.0	0.0	0.0	0.0
82.5°	21.2	10.0	4.1	2.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.6	5.9	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	1.8	0.6	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)