

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: P529827

Luminaire Tested: **GLAN-SA5A-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13794 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 154
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



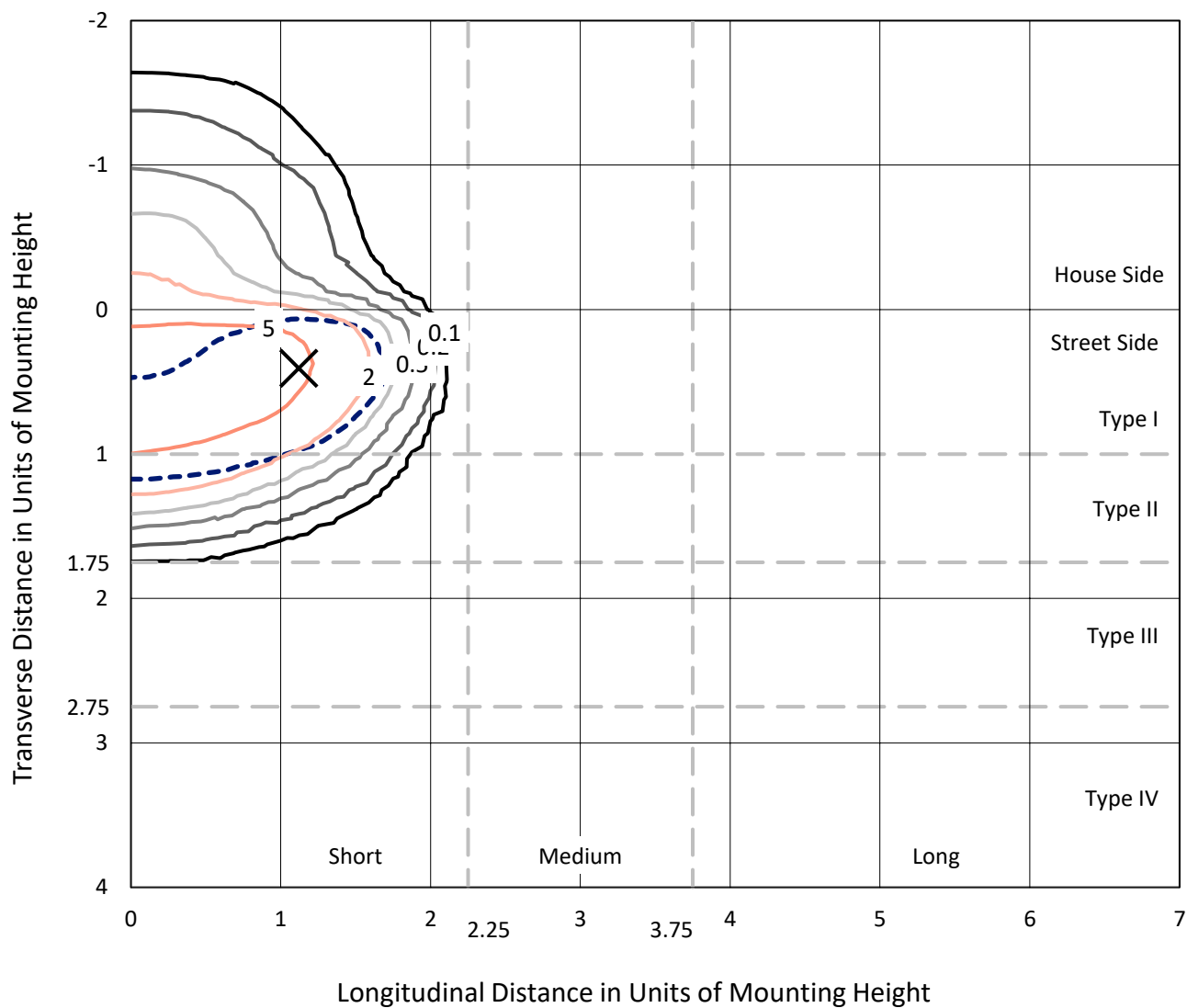
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

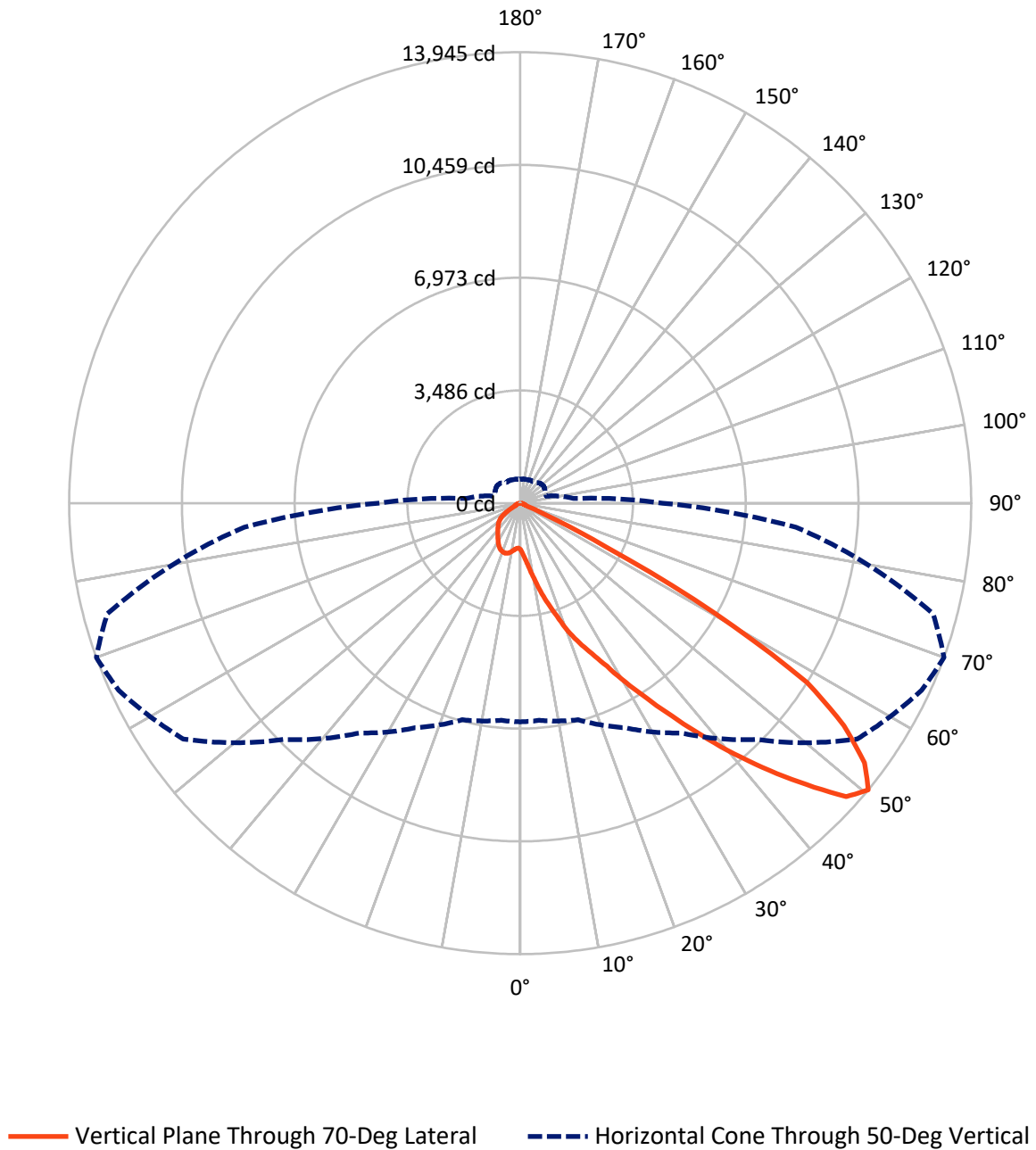


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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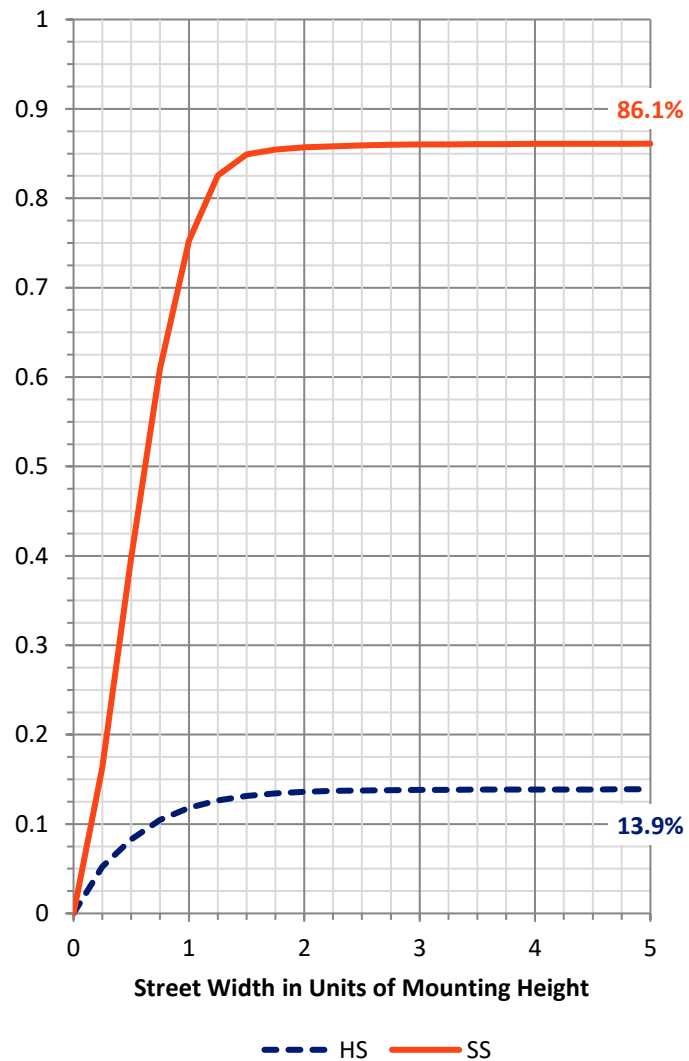
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1926.4	0.0	1926.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	11867.6	0.0	11867.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	13794.0	0.0	13794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	1.3
10°-20°	803.7	5.8
20°-30°	1686.0	12.2
30°-40°	2906.1	21.1
40°-50°	4247.2	30.8
50°-60°	3307.9	24.0
60°-70°	560.5	4.1
70°-80°	77.0	0.6
80°-90°	19.9	0.1
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°	13794.0	100.0
0°-180°	13794.0	100.0

Coefficient of Utilization



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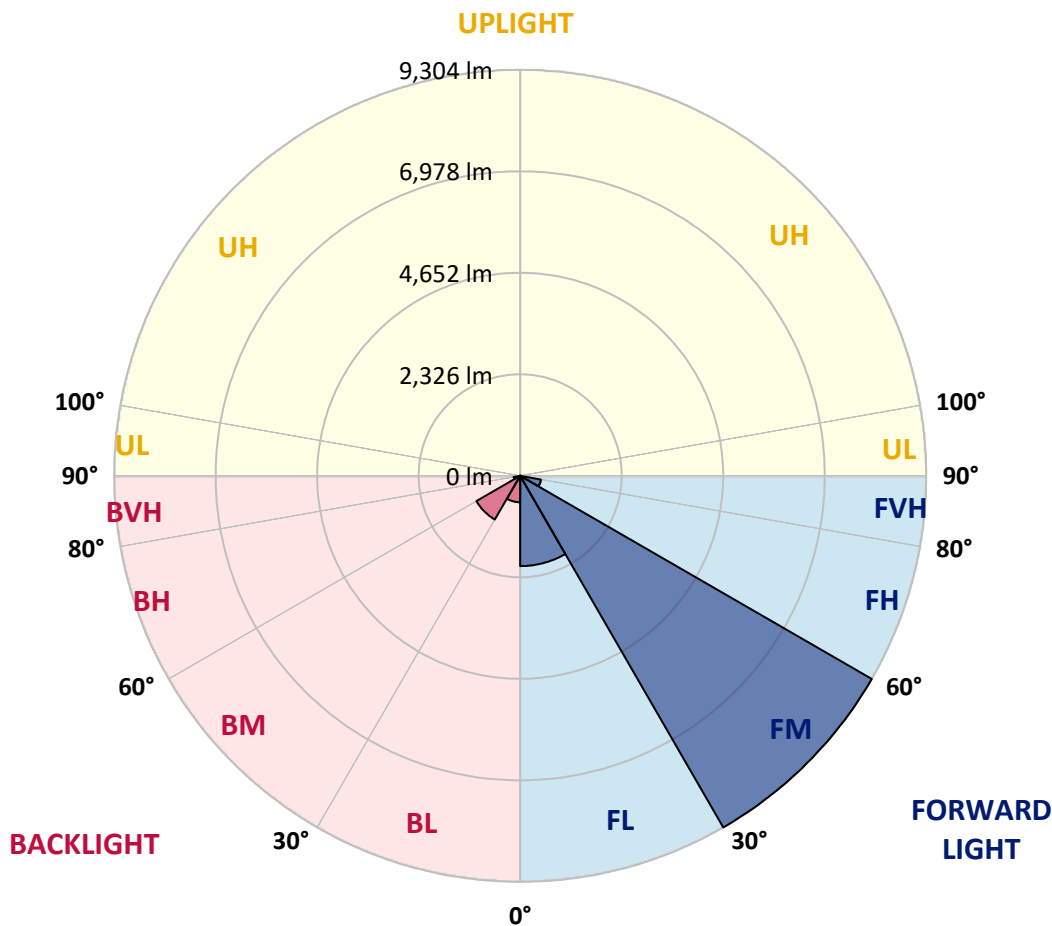
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2069.3	15.0			
FM	(30°-60°)	9303.8	67.4			
FH	(60°-80°)	485.3	3.5			G0/660
FVH	(80°-90°)	9.2	0.1			G0/10
BL	(0°-30°)	606.2	4.4	B2/1000		
BM	(30°-60°)	1157.3	8.4	B2/2500		
BH	(60°-80°)	152.2	1.1	B1/500		G1/500
BVH	(80°-90°)	10.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8
2.5°	1871.0	1857.4	1827.9	1773.5	1750.8	1696.4	1664.6	1603.4	1564.9	1521.8	1474.1
5°	2635.3	2565.0	2521.9	2460.7	2281.5	2170.4	1986.7	1830.2	1757.6	1678.3	1569.4
7.5°	3424.6	3379.2	3320.2	3188.7	3066.2	2834.9	2519.7	2174.9	2027.5	1891.4	1676.0
10°	4077.7	3950.7	3943.9	3846.4	3712.6	3435.9	3057.2	2628.5	2365.4	2165.9	1827.9
12.5°	4533.6	4417.9	4470.1	4458.7	4334.0	4080.0	3642.3	3075.3	2800.9	2490.2	1984.4
15°	4948.6	4901.0	4885.1	4871.5	4821.6	4633.4	4241.0	3619.6	3222.7	2848.5	2161.3
17.5°	5354.5	5232.1	5291.0	5302.4	5297.9	5127.8	4760.4	4136.7	3669.5	3227.2	2347.3
20°	5715.1	5726.5	5647.1	5631.2	5617.6	5610.8	5252.5	4649.2	4218.3	3624.1	2590.0
22.5°	6177.8	6098.4	6168.7	6123.4	6034.9	5980.5	5706.1	5102.8	4694.6	4102.7	2837.2
25°	6724.4	6787.9	6622.3	6604.2	6506.6	6318.4	6071.2	5610.8	5152.7	4547.2	3104.8
27.5°	7397.9	7286.8	7243.7	7143.9	6967.0	6887.7	6597.4	6134.7	5706.1	5014.4	3363.3
30°	7976.3	7946.8	7731.3	7613.4	7459.2	7456.9	7050.9	6844.6	6427.3	5746.9	3719.4
32.5°	8448.0	8318.7	8239.3	8157.7	8033.0	8067.0	7724.5	7615.7	7196.1	6427.3	4138.9
35°	8763.2	8670.2	8622.6	8497.9	8461.6	8613.5	8470.7	8425.3	8080.6	7384.3	4631.1
37.5°	8863.0	8892.5	8883.4	8726.9	8804.0	9214.5	9398.2	9280.3	9098.9	8393.6	5164.0
40°	8951.5	8971.9	8926.5	9110.2	9330.2	9797.4	10461.9	10266.9	10198.8	9416.4	5905.7
42.5°	9001.4	8985.5	8985.5	9303.0	9636.4	10575.3	11489.3	11360.0	11307.8	10505.0	6762.9
45°	8785.9	8631.7	8797.2	9228.1	9899.5	10958.6	12310.2	12489.4	12414.6	11800.0	7765.3
47.5°	7980.8	8076.0	8169.0	8745.1	9579.7	10840.6	12813.7	13423.8	13562.1	12888.6	8423.0
50°	6762.9	6742.5	6935.3	7661.0	8674.8	10332.6	12716.2	13693.7	13945.4	13215.1	8561.4
52.5°	4919.1	5068.8	5277.4	5998.6	7200.6	9017.2	11457.5	12997.4	13333.1	12813.7	8470.7
55°	2864.4	2698.8	3168.3	3778.3	4912.3	6801.5	9686.3	11521.0	12142.4	12083.5	8012.5
57.5°	1147.6	1111.3	1272.3	1714.5	2562.7	4216.1	7044.1	9466.3	10461.9	11067.4	7041.9
60°	503.5	492.1	578.3	698.5	1047.8	1943.6	3853.2	5887.5	6926.2	7733.6	4846.5
62.5°	362.9	358.3	401.4	444.5	553.4	845.9	1619.3	2372.2	2957.4	3572.0	2170.4
65°	292.6	303.9	333.4	356.1	408.2	469.5	571.5	660.0	809.6	839.1	478.5
67.5°	238.1	247.2	274.4	299.4	308.4	254.0	263.1	231.3	231.3	206.4	165.6
70°	174.6	176.9	208.6	238.1	190.5	102.1	179.2	179.2	161.0	154.2	140.6
72.5°	129.3	131.5	156.5	147.4	74.8	63.5	131.5	145.1	131.5	124.7	113.4
75°	95.3	97.5	81.6	34.0	31.8	40.8	77.1	99.8	95.3	93.0	86.2
77.5°	18.1	13.6	11.3	15.9	22.7	34.0	49.9	61.2	63.5	68.0	63.5
80°	2.3	2.3	6.8	13.6	24.9	36.3	52.2	59.0	61.2	63.5	59.0
82.5°	0.0	2.3	6.8	13.6	24.9	34.0	45.4	52.2	56.7	59.0	56.7
85°	0.0	2.3	4.5	11.3	20.4	24.9	22.7	15.9	13.6	15.9	11.3
87.5°	0.0	0.0	2.3	2.3	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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°	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8
2.5°	1446.9	1437.9	1406.1	1372.1	1342.6	1356.2	1342.6	1331.3	1335.8	1331.3	1326.7
5°	1526.3	1485.5	1417.4	1388.0	1363.0	1360.7	1353.9	1351.7	1353.9	1353.9	1333.5
7.5°	1601.1	1535.4	1462.8	1431.1	1401.6	1403.8	1388.0	1388.0	1385.7	1374.4	1369.8
10°	1714.5	1626.1	1533.1	1476.4	1440.1	1433.3	1417.4	1401.6	1401.6	1401.6	1378.9
12.5°	1839.3	1728.2	1601.1	1535.4	1492.3	1458.3	1433.3	1428.8	1403.8	1399.3	1388.0
15°	1948.1	1807.5	1646.5	1555.8	1501.4	1456.0	1417.4	1392.5	1381.2	1374.4	1365.3
17.5°	2054.7	1875.6	1671.5	1555.8	1496.8	1444.7	1403.8	1381.2	1353.9	1358.5	1340.3
20°	2197.6	1948.1	1678.3	1526.3	1453.7	1403.8	1349.4	1338.1	1322.2	1308.6	1313.1
22.5°	2336.0	2000.3	1657.8	1490.0	1385.7	1326.7	1299.5	1285.9	1279.1	1267.8	1251.9
25°	2460.7	2057.0	1626.1	1424.3	1313.1	1270.0	1245.1	1242.8	1226.9	1226.9	1197.5
27.5°	2587.7	2077.4	1571.7	1347.1	1249.6	1224.7	1213.3	1208.8	1202.0	1186.1	1165.7
30°	2732.8	2084.2	1492.3	1267.8	1192.9	1165.7	1181.6	1192.9	1163.4	1134.0	1143.0
32.5°	2853.0	2068.3	1397.0	1192.9	1152.1	1138.5	1170.2	1181.6	1147.6	1115.8	1099.9
35°	2998.2	2029.8	1304.1	1134.0	1111.3	1138.5	1165.7	1165.7	1097.7	1059.1	1050.0
37.5°	3218.2	1986.7	1217.9	1084.1	1068.2	1124.9	1161.2	1136.2	1029.6	982.0	970.7
40°	3454.0	1959.5	1134.0	1034.2	1045.5	1102.2	1122.6	1045.5	936.6	907.2	898.1
42.5°	3796.5	1905.0	1059.1	991.1	1025.1	1070.5	1070.5	932.1	891.3	875.4	873.1
45°	4222.9	1866.5	993.3	954.8	995.6	1007.0	970.7	873.1	843.7	839.1	841.4
47.5°	4431.5	1791.7	925.3	911.7	941.2	943.5	848.2	825.5	800.6	793.8	789.2
50°	4399.8	1657.8	836.9	855.0	895.8	873.1	773.4	777.9	755.2	752.9	741.6
52.5°	4177.5	1446.9	748.4	791.5	836.9	771.1	712.1	707.6	707.6	678.1	666.8
55°	3703.5	1165.7	641.8	696.3	750.7	648.6	632.7	628.2	616.9	589.7	582.9
57.5°	2932.4	855.0	483.1	542.0	637.3	551.1	548.8	528.4	498.9	478.5	478.5
60°	1744.0	492.1	303.9	331.1	421.8	446.8	496.7	487.6	437.7	406.0	396.9
62.5°	796.0	254.0	192.8	197.3	226.8	290.3	390.1	451.3	381.0	326.6	322.0
65°	267.6	188.2	158.8	152.0	156.5	174.6	233.6	319.8	303.9	251.7	242.7
67.5°	163.3	167.8	149.7	138.3	138.3	136.1	133.8	145.1	179.2	174.6	176.9
70°	140.6	154.2	138.3	124.7	120.2	113.4	95.3	79.4	68.0	79.4	83.9
72.5°	113.4	122.5	117.9	106.6	95.3	86.2	68.0	52.2	38.6	34.0	34.0
75°	83.9	90.7	95.3	81.6	72.6	61.2	49.9	34.0	20.4	13.6	13.6
77.5°	61.2	68.0	70.3	63.5	54.4	43.1	31.8	22.7	11.3	4.5	4.5
80°	52.2	61.2	68.0	63.5	56.7	40.8	29.5	15.9	9.1	2.3	2.3
82.5°	49.9	61.2	68.0	61.2	54.4	38.6	29.5	18.1	6.8	2.3	2.3
85°	11.3	15.9	20.4	24.9	29.5	29.5	22.7	13.6	6.8	2.3	2.3
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	2.3	2.3	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)