

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: P286963

Luminaire Tested: **USSL-C027-D-U-T3-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C027-D-U-T3-AP-7050
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE III OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14226 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 96
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: 28.75 FT

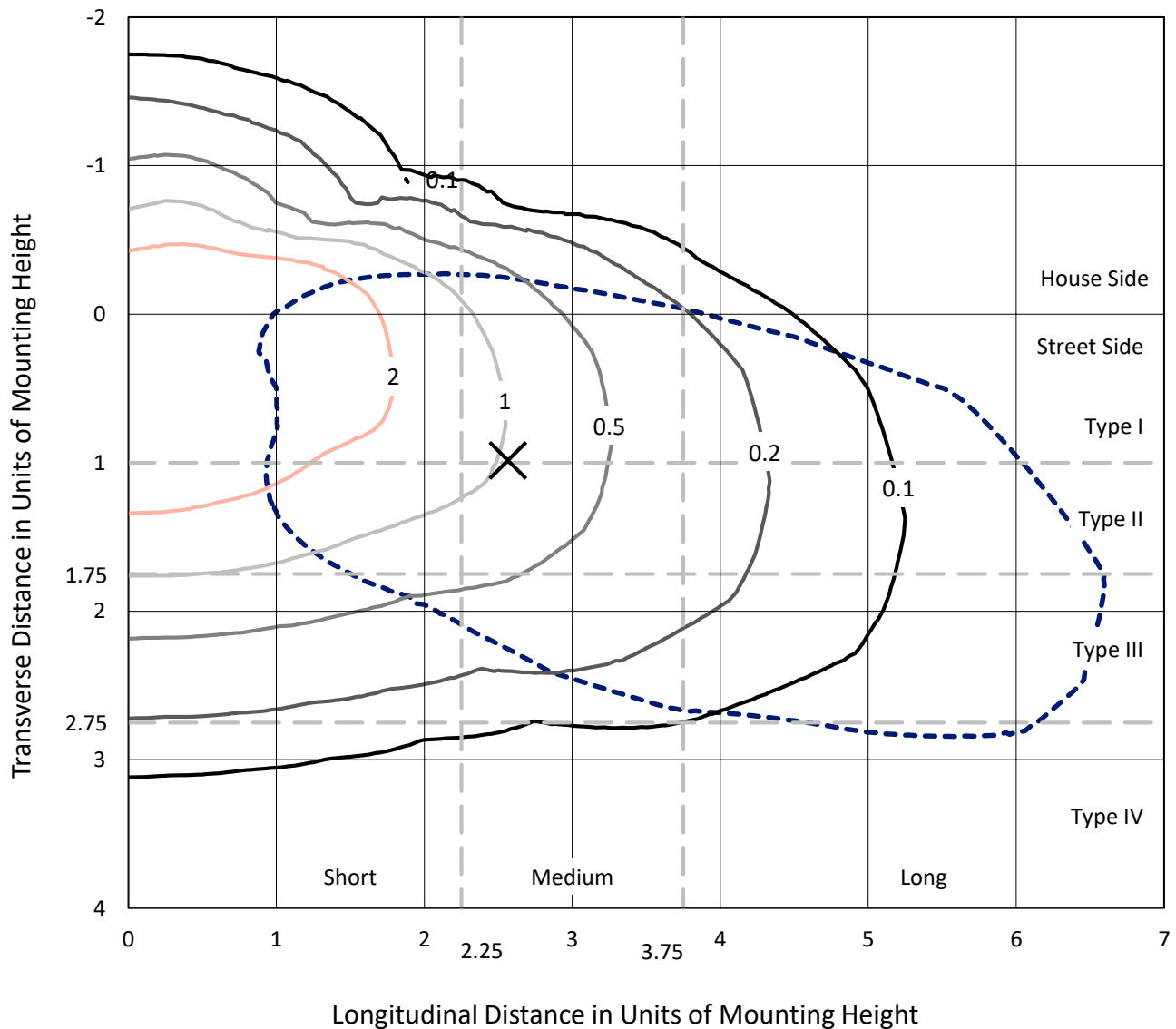


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

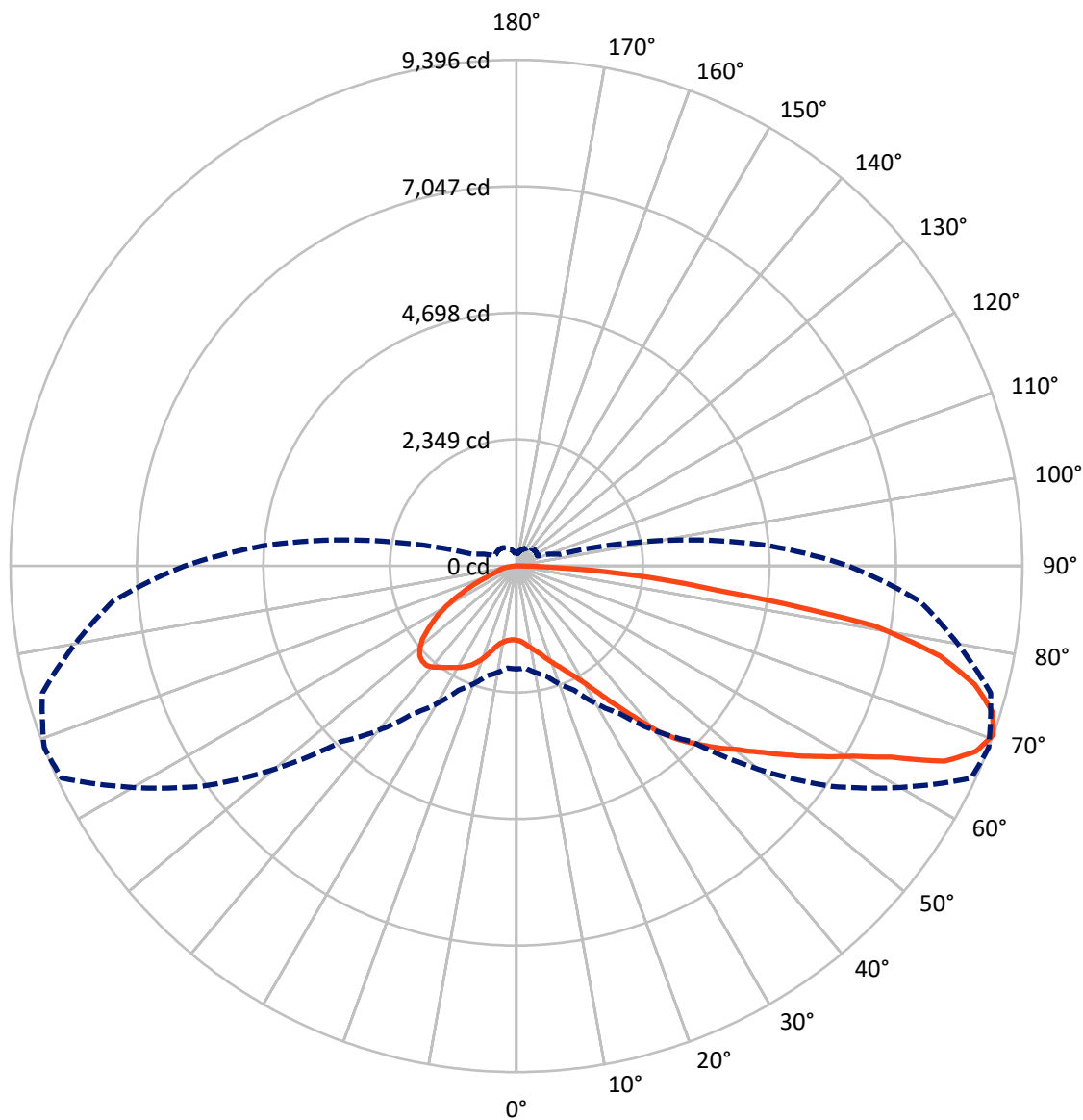


Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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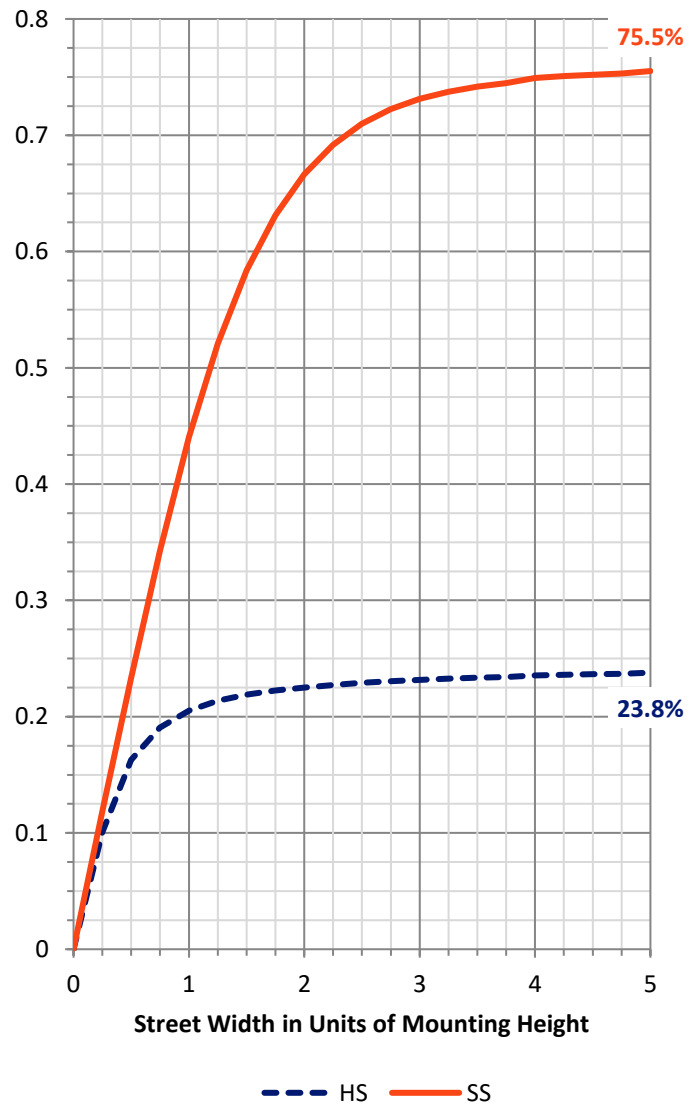
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3450.5	0.0	3450.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	10775.5	0.0	10775.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	14226.0	0.0	14226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	1.0
10°-20°	449.9	3.2
20°-30°	846.0	5.9
30°-40°	1448.4	10.2
40°-50°	2212.2	15.6
50°-60°	2860.9	20.1
60°-70°	3254.2	22.9
70°-80°	2479.6	17.4
80°-90°	537.9	3.8
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°	14226.0	100.0
0°-180°	14226.0	100.0

Coefficient of Utilization



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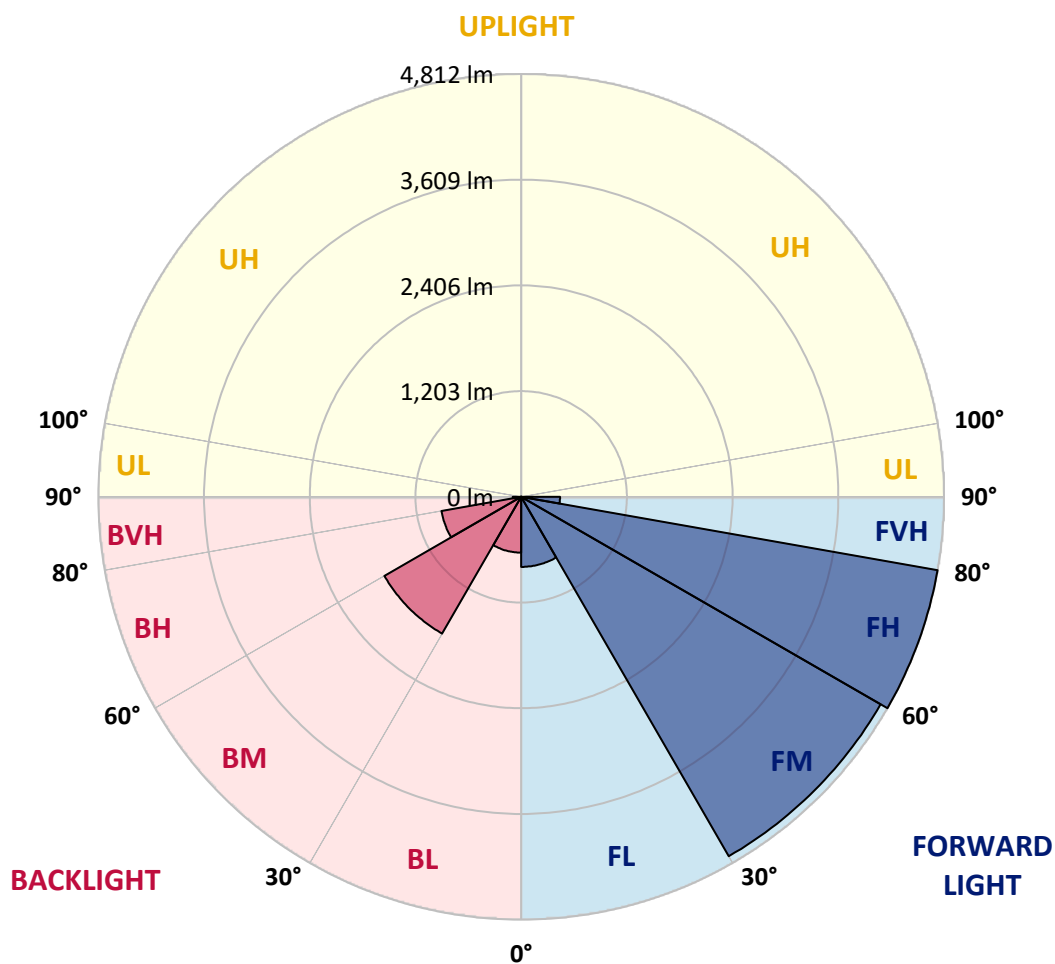
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	797.5	5.6			
FM	(30°-60°)	4723.4	33.2			
FH	(60°-80°)	4812.5	33.8			G2/5000
FVH	(80°-90°)	442.1	3.1			G3/500
BL	(0°-30°)	635.3	4.5	B2/1000		
BM	(30°-60°)	1798.1	12.6	B2/2500		
BH	(60°-80°)	921.3	6.5	B2/1000		G2/1000
BVH	(80°-90°)	95.8	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8
2.5°	1465.9	1456.2	1456.9	1431.9	1432.6	1422.9	1417.3	1408.9	1395.0	1399.9	1376.9
5°	1537.0	1523.7	1527.8	1498.0	1496.6	1483.3	1469.4	1444.4	1438.2	1435.4	1415.2
7.5°	1583.5	1580.7	1578.6	1563.4	1562.0	1546.6	1533.5	1506.3	1495.8	1483.3	1457.7
10°	1628.7	1630.8	1632.9	1606.5	1623.1	1605.1	1590.5	1568.2	1554.3	1550.1	1510.5
12.5°	1651.6	1653.8	1664.9	1657.3	1667.0	1676.7	1662.1	1639.1	1625.3	1625.3	1579.4
15°	1671.8	1677.4	1696.2	1702.4	1719.8	1728.2	1739.3	1724.7	1703.8	1700.3	1662.1
17.5°	1705.9	1703.2	1719.8	1747.7	1767.8	1783.8	1815.1	1810.9	1809.6	1800.5	1772.7
20°	1751.8	1746.9	1763.7	1775.4	1806.7	1854.7	1897.1	1918.7	1917.4	1912.5	1888.1
22.5°	1801.8	1797.1	1797.7	1806.7	1849.2	1921.5	1986.9	2027.9	2028.5	2031.4	2053.7
25°	1887.4	1867.2	1861.0	1868.6	1919.4	2007.8	2091.9	2159.3	2172.6	2188.6	2259.5
27.5°	2094.7	2104.4	2019.5	1964.6	2007.0	2115.6	2214.2	2313.8	2334.5	2382.5	2524.5
30°	2416.7	2400.7	2357.5	2237.9	2141.2	2237.9	2377.0	2500.1	2539.7	2662.2	2790.1
32.5°	2660.0	2660.8	2639.9	2538.4	2404.8	2381.2	2538.4	2742.1	2820.7	3048.1	3162.8
35°	2906.9	2896.5	2914.6	2818.6	2700.4	2616.3	2714.3	2983.4	3163.6	3500.1	3562.0
37.5°	3138.5	3142.0	3146.2	3053.7	2997.3	2968.1	2957.0	3295.7	3554.4	3920.1	3959.2
40°	3310.3	3329.0	3342.3	3291.5	3271.4	3272.8	3224.7	3666.3	4024.4	4384.7	4340.2
42.5°	3447.3	3468.8	3564.8	3496.6	3525.9	3584.3	3575.9	3959.8	4405.6	4740.8	4689.3
45°	3562.0	3562.7	3629.5	3656.7	3760.9	3871.5	3880.5	4272.8	4721.3	5062.1	4963.3
47.5°	3641.3	3627.4	3679.5	3790.1	3982.0	4112.1	4198.4	4626.8	5047.5	5350.0	5243.6
50°	3665.7	3685.2	3772.1	3912.5	4168.5	4373.6	4555.1	5075.3	5365.3	5631.7	5471.0
52.5°	3710.8	3719.2	3840.9	4024.4	4357.6	4630.9	4811.7	5538.5	5756.1	5920.3	5749.2
55°	3749.1	3772.7	3888.9	4083.6	4477.2	4839.5	5083.6	5960.6	6206.0	6238.0	6040.6
57.5°	3612.1	3635.0	3841.6	4100.3	4576.6	5007.8	5382.0	6370.8	6676.2	6621.9	6295.1
60°	3358.9	3385.4	3632.9	4054.4	4592.7	5195.6	5772.9	6916.2	7172.8	7107.4	6581.7
62.5°	3129.5	3130.8	3398.6	3857.6	4516.9	5324.3	6247.8	7621.3	7814.6	7699.9	6899.4
65°	2827.0	2824.2	3066.2	3541.1	4302.7	5284.7	6618.4	8482.3	8738.1	8412.7	7203.3
67.5°	2418.1	2409.7	2654.5	3094.7	3904.9	5080.8	6932.8	9067.8	9199.9	8932.8	7446.0
70°	1911.7	1902.7	2109.9	2546.7	3350.7	4615.7	7131.0	9318.1	9396.0	9117.2	7522.5
72.5°	1340.8	1335.3	1459.1	1804.7	2563.4	3883.4	7088.6	9192.9	9242.3	8924.6	7297.9
75°	793.4	791.4	906.9	1104.3	1515.3	2893.7	6609.4	8734.0	8793.1	8504.5	6746.5
77.5°	306.0	283.7	443.0	537.6	861.7	1355.4	5055.8	7909.9	8046.9	7775.6	5943.9
80°	100.2	103.7	310.9	379.7	500.1	607.1	2705.3	6419.6	6744.4	6570.5	4502.2
82.5°	73.0	75.1	193.3	256.6	331.0	411.7	1023.7	3489.7	3831.9	3772.7	2210.1
85°	48.0	48.0	66.0	91.2	123.8	164.8	287.2	1771.3	2171.2	2106.4	957.6
87.5°	25.8	26.4	38.3	54.9	74.4	86.9	91.8	362.3	494.4	430.4	191.2
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°	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8	1381.8
2.5°	1370.0	1383.9	1373.5	1365.2	1351.3	1343.6	1345.6	1338.8	1332.5	1348.4	1340.8
5°	1408.3	1417.3	1390.2	1374.2	1351.9	1333.1	1331.8	1316.5	1308.8	1315.0	1317.9
7.5°	1440.9	1447.9	1411.8	1383.3	1361.0	1338.8	1323.4	1297.0	1286.5	1297.6	1301.9
10°	1497.3	1488.9	1445.1	1413.2	1380.4	1353.3	1327.6	1302.5	1283.8	1284.5	1285.9
12.5°	1561.2	1538.3	1499.3	1454.2	1418.7	1391.5	1356.1	1313.6	1283.8	1283.1	1288.0
15°	1650.3	1622.5	1588.4	1534.8	1495.2	1456.2	1399.2	1325.5	1278.2	1261.5	1254.6
17.5°	1761.6	1724.7	1712.9	1651.0	1585.6	1511.2	1420.1	1330.4	1246.9	1215.6	1217.0
20°	1895.1	1883.2	1868.0	1766.4	1672.5	1547.3	1429.8	1308.1	1196.2	1141.2	1135.7
22.5°	2082.8	2077.3	2004.9	1865.8	1721.9	1571.0	1421.4	1260.9	1125.9	1057.8	1043.9
25°	2299.8	2254.6	2120.4	1950.0	1760.8	1577.2	1388.0	1192.0	1043.2	958.4	954.1
27.5°	2515.4	2435.4	2237.9	2002.9	1764.3	1552.9	1317.9	1098.1	961.1	881.8	871.3
30°	2766.4	2658.7	2356.8	2041.2	1756.7	1491.7	1219.8	1019.5	906.9	828.3	816.4
32.5°	3083.6	2900.6	2474.3	2058.5	1705.2	1409.7	1115.4	985.4	867.2	776.8	762.9
35°	3463.2	3219.9	2633.6	2057.8	1637.8	1282.4	1062.7	966.0	839.4	728.2	707.3
37.5°	3827.0	3577.4	2813.7	2049.4	1530.0	1149.6	1025.8	934.6	820.6	718.4	706.5
40°	4162.2	3870.8	3032.1	2034.2	1403.4	1068.9	984.8	886.0	798.3	727.4	714.2
42.5°	4474.5	4147.6	3227.5	1995.9	1264.4	1011.9	929.1	853.3	774.7	685.0	664.9
45°	4756.8	4381.2	3362.4	1905.5	1112.0	948.6	866.5	809.4	731.6	639.8	623.9
47.5°	4992.6	4594.0	3457.7	1783.8	988.9	881.8	794.2	747.5	678.8	594.6	573.7
50°	5199.1	4804.7	3522.4	1576.6	881.1	813.7	722.5	671.8	609.9	550.1	535.5
52.5°	5400.7	5018.3	3597.5	1299.8	779.6	734.4	640.5	584.2	537.6	509.7	500.1
55°	5667.1	5290.2	3597.5	952.7	686.4	671.1	569.6	495.2	462.4	443.0	447.9
57.5°	5907.8	5457.1	3445.8	709.4	627.2	605.7	492.3	419.3	384.5	389.4	404.0
60°	6174.1	5616.3	3023.0	587.0	577.2	516.1	420.0	368.6	350.5	333.1	331.0
62.5°	6357.0	5639.3	2480.0	518.1	527.1	455.5	392.9	339.4	319.2	294.1	288.6
65°	6561.4	5516.2	1865.8	486.1	482.7	432.5	387.4	335.2	307.4	266.4	259.4
67.5°	6486.4	5152.5	1324.8	449.9	451.3	435.3	396.4	334.5	301.1	256.6	251.7
70°	6160.1	4563.5	830.3	433.3	445.1	440.9	412.4	351.9	299.0	233.0	226.0
72.5°	5700.5	3805.5	464.6	401.9	441.6	444.4	431.9	367.9	274.0	190.6	186.3
75°	4946.7	2904.1	332.4	372.0	424.9	443.7	423.5	354.0	251.1	179.4	173.8
77.5°	3867.4	1702.4	292.7	342.9	393.6	396.4	420.0	367.9	260.8	182.2	175.9
80°	2091.2	704.5	246.2	301.9	323.4	374.9	407.5	343.5	241.3	146.7	137.7
82.5°	848.4	198.9	143.3	191.9	262.2	309.5	363.0	303.9	221.2	122.4	115.4
85°	217.0	68.2	66.8	98.0	157.2	231.6	294.9	260.1	180.1	54.3	3.5
87.5°	27.1	22.3	26.4	54.3	102.3	166.2	216.3	187.8	127.9	0.7	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)