

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: P267098

Luminaire Tested: **GAN-AF-07-LED-U-T2-7027-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-T2-7027-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29002.8 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 295
Input Voltage (V): NR
Input Current (A_{in}): 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

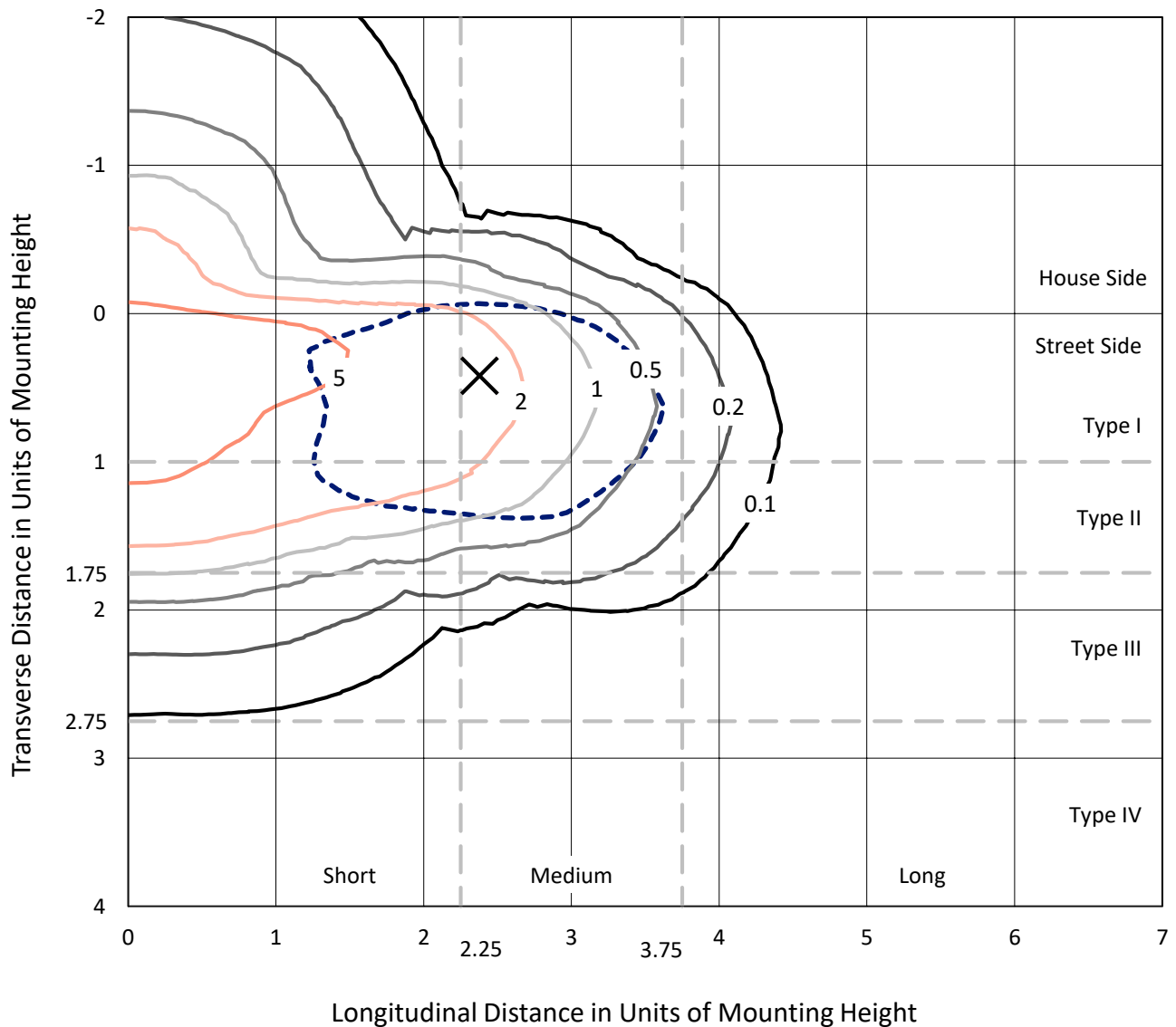


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

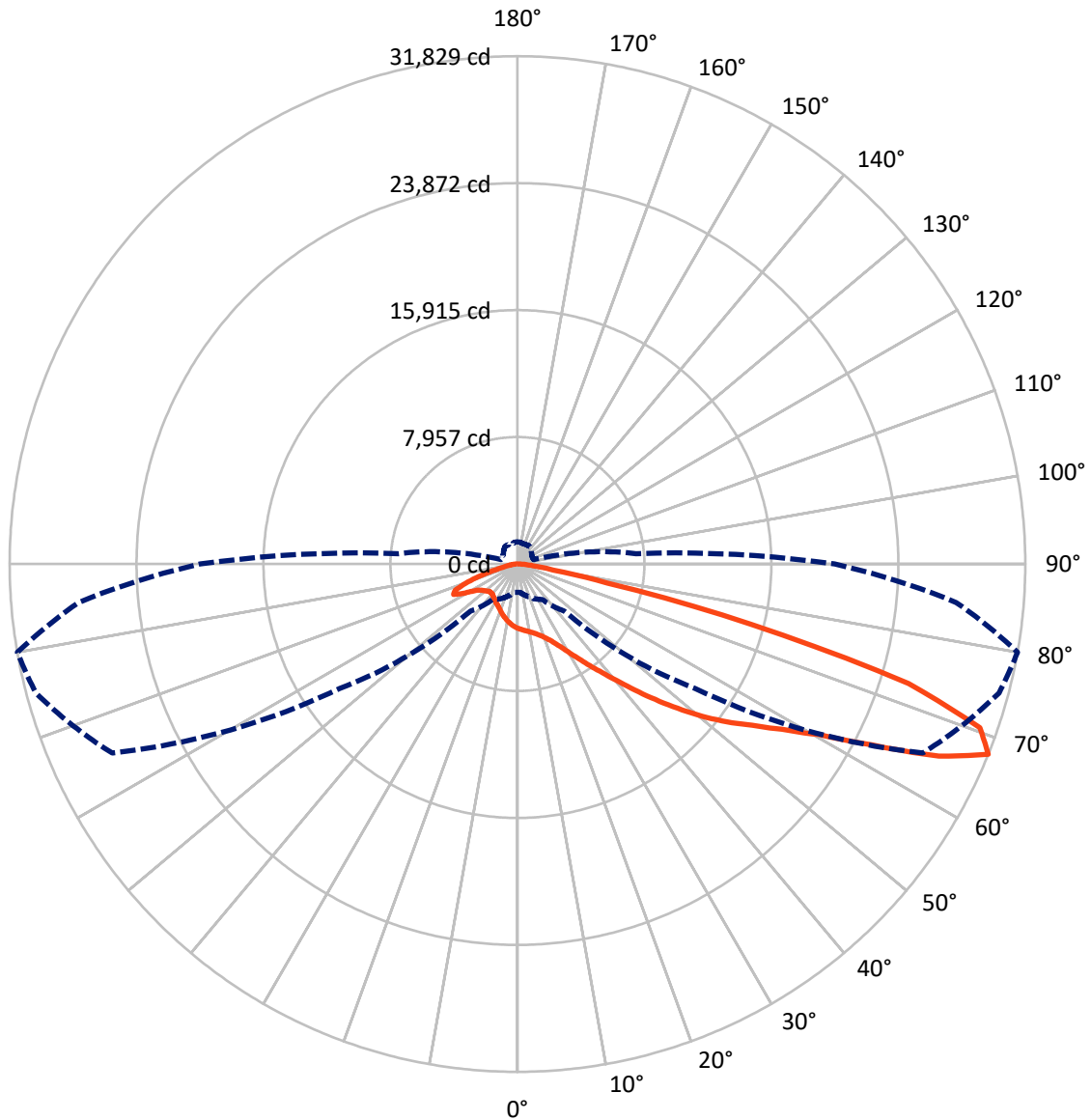


Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5341.2	0.0	5341.2
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	23661.6	0.0	23661.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	29002.8	0.0	29002.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.7	1.3
10°-20°	1070.7	3.7
20°-30°	1772.3	6.1
30°-40°	2899.0	10.0
40°-50°	4680.7	16.1
50°-60°	6757.6	23.3
60°-70°	7457.4	25.7
70°-80°	3437.4	11.9
80°-90°	556.0	1.9
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°	29002.8	100.0
0°-180°	29002.8	100.0



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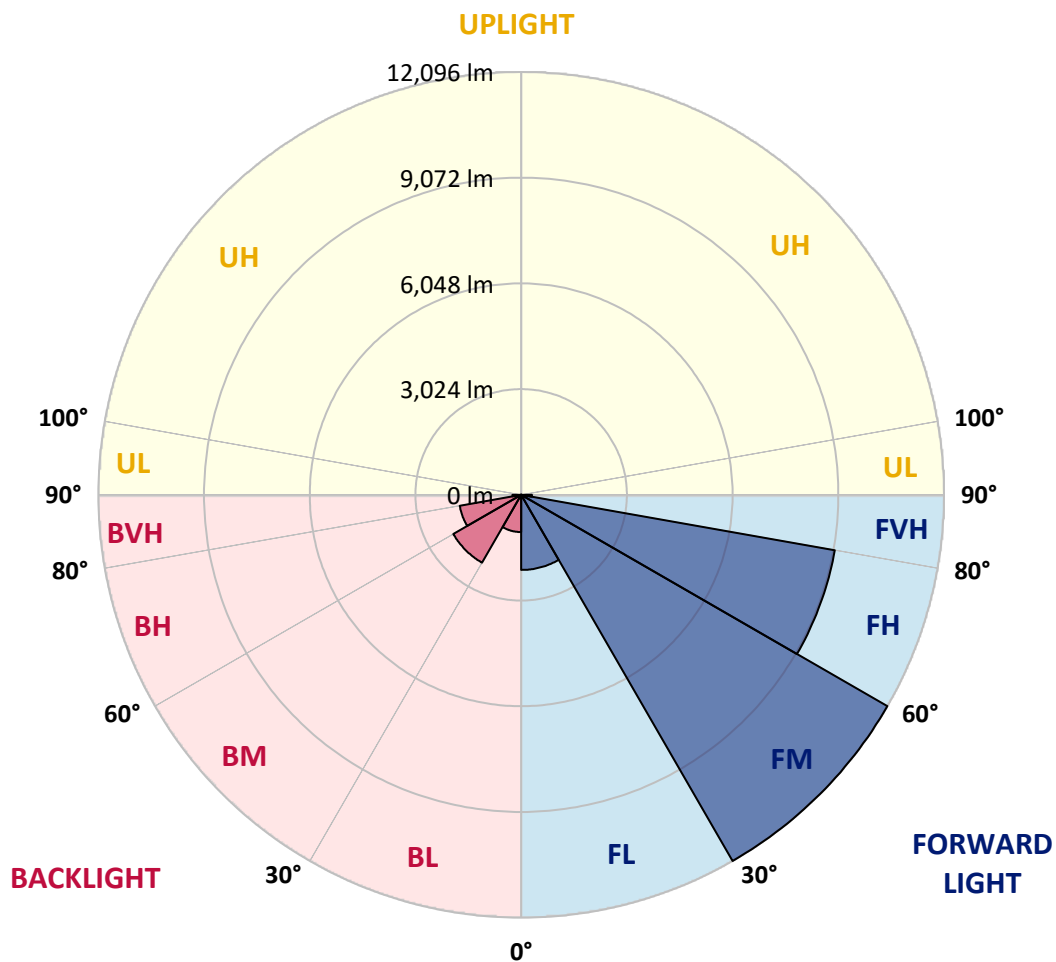
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2149.1	7.4			
FM	(30°-60°)	12096.3	41.7			
FH	(60°-80°)	9110.5	31.4			G4/12000
FVH	(80°-90°)	305.7	1.1			G3/500
BL	(0°-30°)	1065.6	3.7	B3/2500		
BM	(30°-60°)	2241.0	7.7	B2/2500		
BH	(60°-80°)	1784.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	250.3	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3
2.5°	4407.8	4382.0	4386.2	4379.1	4357.8	4320.6	4280.7	4207.8	4132.2	4092.1	4060.8
5°	4776.1	4768.9	4759.0	4736.1	4681.8	4604.7	4509.1	4380.6	4242.1	4169.3	4099.2
7.5°	5051.7	5047.3	5034.6	5020.3	4967.4	4874.7	4730.4	4547.6	4346.3	4246.4	4137.9
10°	5074.4	5081.6	5091.7	5130.2	5137.3	5087.3	4940.3	4718.9	4454.9	4326.2	4187.8
12.5°	4880.3	4896.0	4934.6	5033.2	5137.3	5198.8	5123.0	4898.8	4581.9	4426.3	4250.6
15°	4623.2	4631.9	4679.0	4814.6	5001.8	5191.6	5263.0	5097.3	4746.0	4554.8	4344.9
17.5°	4513.4	4517.7	4550.5	4640.5	4814.6	5085.9	5341.5	5312.9	4947.4	4714.7	4460.5
20°	4457.7	4467.7	4514.8	4603.4	4713.2	4950.3	5352.9	5545.6	5187.4	4914.5	4606.1
22.5°	4616.2	4611.9	4629.1	4673.3	4766.0	4908.9	5344.3	5785.5	5492.9	5171.6	4796.1
25°	4986.0	5001.8	4971.7	4921.8	4951.6	5051.7	5390.0	6045.5	5875.5	5501.4	5044.5
27.5°	5512.9	5497.2	5452.9	5335.8	5274.4	5317.2	5541.5	6325.2	6350.9	5935.6	5372.9
30°	6038.2	6025.4	5982.6	5839.8	5714.2	5678.5	5835.5	6646.5	6917.8	6456.7	5775.6
32.5°	6583.7	6569.5	6529.5	6386.7	6235.3	6152.5	6253.9	7017.7	7586.0	7079.2	6249.6
35°	7256.1	7229.1	7144.8	6946.4	6797.8	6733.6	6780.8	7484.7	8357.1	7816.0	6825.1
37.5°	7888.7	7930.1	7844.4	7570.3	7377.6	7354.8	7407.6	8054.4	9188.0	8639.8	7486.0
40°	8524.1	8531.3	8454.2	8230.0	8031.6	7994.3	8127.1	8745.4	10169.1	9625.0	8290.0
42.5°	9180.9	9195.2	9065.2	8858.2	8712.7	8719.8	8871.1	9555.0	11294.1	10785.8	9215.3
45°	9959.1	9980.4	9837.7	9566.4	9433.7	9700.6	9637.8	10463.1	12527.8	12105.1	10277.5
47.5°	10773.0	10805.8	10697.2	10443.2	10277.5	10644.5	10404.6	11469.6	13855.6	13520.1	11444.0
50°	11217.0	11264.1	11369.8	11351.3	11315.5	11254.1	11259.9	12549.2	15225.0	14993.6	12643.5
52.5°	10978.5	10977.2	11362.7	11830.9	12330.8	12367.9	12302.2	13687.1	16504.3	16434.3	13772.9
55°	9887.7	9961.9	10545.9	11452.6	12817.6	13670.0	13864.3	14990.7	17760.7	17842.1	14919.4
57.5°	8071.5	8133.0	8921.1	10184.8	12160.9	14443.8	16085.9	16885.5	19165.7	19545.5	16445.7
60°	5474.4	5548.6	6383.9	7901.6	10393.2	14012.8	18200.5	20266.7	20847.8	21711.6	18587.5
62.5°	3216.9	3284.1	3965.1	4984.5	7317.7	12009.5	19128.6	25076.9	23519.2	24979.9	21854.3
65°	2214.5	2260.2	2591.5	3102.7	4205.0	8088.7	17977.8	28398.1	27629.9	29029.2	25642.4
67.5°	1782.0	1776.2	2039.0	2387.3	2707.1	4170.7	13594.3	28022.5	31245.1	31829.1	27608.5
70°	1467.8	1462.1	1640.6	1929.0	2163.2	2348.8	7404.6	23647.7	30508.3	30745.4	25798.0
72.5°	1228.0	1233.6	1347.8	1562.1	1774.8	1769.1	3254.0	16635.6	24000.3	25639.6	20565.0
75°	1036.6	1039.5	1115.2	1266.5	1440.7	1425.0	1764.8	9012.4	13951.2	15092.2	11399.9
77.5°	882.3	885.3	933.8	1018.0	1142.3	1136.5	1287.9	3893.8	5819.8	5748.4	3899.5
80°	786.7	786.7	809.6	825.4	893.9	868.1	955.2	1870.5	2460.2	2271.6	1556.4
82.5°	616.9	619.7	759.5	753.9	703.9	671.0	671.0	1102.3	1303.6	1205.0	910.9
85°	346.9	345.6	489.8	591.2	619.7	472.6	468.3	616.9	709.7	625.4	441.2
87.5°	148.5	151.4	227.0	262.8	351.2	294.1	289.9	318.4	361.3	312.7	204.2
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°	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3	4029.3
2.5°	4030.8	3993.7	3912.3	3810.9	3719.5	3659.5	3605.3	3526.7	3531.0	3476.8	3436.7
5°	4027.9	3950.7	3762.3	3538.2	3322.6	3167.0	3049.8	2944.1	2918.5	2868.5	2838.6
7.5°	4030.8	3905.1	3588.1	3229.8	2962.7	2765.7	2665.8	2610.0	2597.2	2580.1	2581.5
10°	4040.8	3863.7	3396.9	2941.3	2661.5	2531.6	2507.3	2524.3	2544.4	2550.1	2551.5
12.5°	4063.7	3826.6	3186.8	2684.3	2473.0	2433.0	2474.4	2533.0	2571.5	2590.1	2588.6
15°	4115.0	3798.0	2985.5	2482.9	2368.8	2390.2	2467.3	2550.1	2605.9	2631.4	2632.9
17.5°	4170.7	3756.6	2778.5	2328.8	2291.7	2346.0	2441.7	2538.7	2607.2	2635.7	2641.5
20°	4243.6	3705.1	2561.5	2213.2	2218.9	2280.3	2370.2	2467.3	2542.9	2567.3	2578.7
22.5°	4339.2	3649.5	2371.6	2118.9	2136.0	2183.2	2253.0	2337.4	2403.1	2414.5	2424.4
25°	4467.7	3589.5	2220.3	2033.3	2040.4	2067.4	2114.6	2164.6	2210.3	2197.4	2207.4
27.5°	4640.5	3538.2	2107.5	1954.7	1941.9	1947.5	1971.8	1987.5	2011.8	1976.1	1980.5
30°	4843.2	3482.5	2020.4	1886.1	1850.5	1840.4	1846.1	1854.7	1873.3	1824.7	1817.6
32.5°	5078.7	3415.4	1939.0	1826.2	1776.2	1756.2	1759.2	1782.0	1853.4	1823.3	1807.6
35°	5352.9	3339.7	1853.4	1760.5	1726.3	1697.6	1694.8	1766.2	1979.0	1960.5	1946.1
37.5°	5674.1	3264.0	1767.7	1686.3	1689.2	1657.7	1647.8	1729.1	2003.2	1930.4	1920.4
40°	6082.6	3224.0	1694.8	1607.7	1643.4	1639.1	1619.1	1660.5	1843.3	1710.6	1693.5
42.5°	6588.0	3229.8	1640.6	1523.4	1589.2	1634.8	1603.5	1604.9	1670.6	1570.5	1554.8
45°	7212.0	3296.9	1601.9	1456.4	1527.7	1630.6	1597.7	1574.9	1580.6	1527.7	1519.3
47.5°	7940.2	3435.4	1574.9	1400.6	1469.3	1614.9	1596.3	1566.4	1553.4	1525.0	1517.7
50°	8749.8	3636.7	1554.8	1347.8	1416.4	1589.2	1597.7	1557.8	1543.5	1532.1	1527.7
52.5°	9545.0	3866.6	1525.0	1302.2	1374.9	1557.8	1601.9	1549.1	1533.4	1525.0	1520.7
55°	10431.7	4153.6	1479.1	1263.6	1340.7	1517.7	1601.9	1536.3	1519.3	1520.7	1519.3
57.5°	11629.6	4617.6	1425.0	1230.8	1299.3	1469.3	1574.9	1522.1	1500.7	1502.1	1503.6
60°	13501.5	5435.7	1359.2	1198.0	1247.9	1412.1	1537.8	1490.6	1469.3	1474.9	1476.4
62.5°	16254.4	6636.6	1273.6	1149.4	1193.7	1350.7	1486.3	1450.7	1429.3	1443.5	1443.5
65°	19115.8	7696.0	1167.9	1087.9	1136.5	1283.6	1422.0	1400.6	1379.3	1412.1	1410.7
67.5°	19885.3	7458.9	1062.2	1021.0	1079.5	1209.4	1345.0	1333.7	1322.1	1379.3	1376.5
70°	17665.1	5988.3	965.1	952.4	1016.6	1129.3	1262.2	1262.2	1255.0	1298.0	1287.9
72.5°	13458.6	4246.4	872.4	879.5	945.2	1042.4	1172.3	1182.2	1170.9	1192.2	1183.6
75°	7204.9	2430.2	779.5	799.6	856.8	953.8	1072.2	1082.3	1075.1	1073.7	1078.0
77.5°	2394.4	1188.0	682.5	714.0	763.9	862.5	968.1	983.7	966.7	963.8	962.4
80°	1066.6	746.8	575.5	616.9	661.2	758.2	858.2	870.9	852.4	878.2	845.2
82.5°	685.3	491.2	461.2	506.9	549.8	654.0	748.2	751.1	733.9	852.4	726.8
85°	332.7	304.2	346.9	388.3	425.4	514.0	619.7	621.1	578.2	526.9	508.4
87.5°	165.6	177.1	231.4	268.5	287.0	352.7	451.2	442.7	424.1	385.6	355.5
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)