

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: P193320

Luminaire Tested: **GAN-AF-02-LED-U-T4W-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T4W-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12831.4 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

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: 28.75 FT



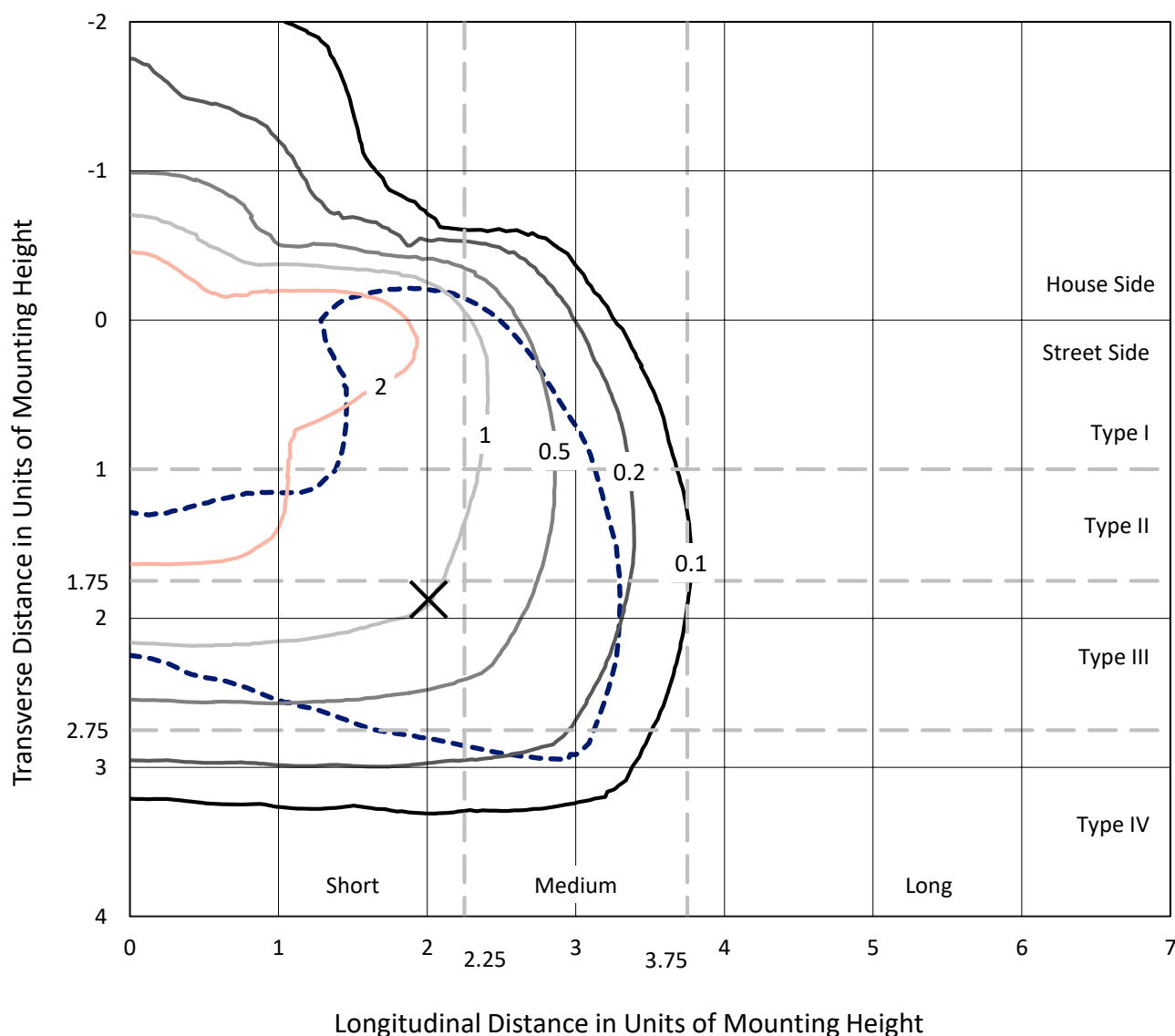
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

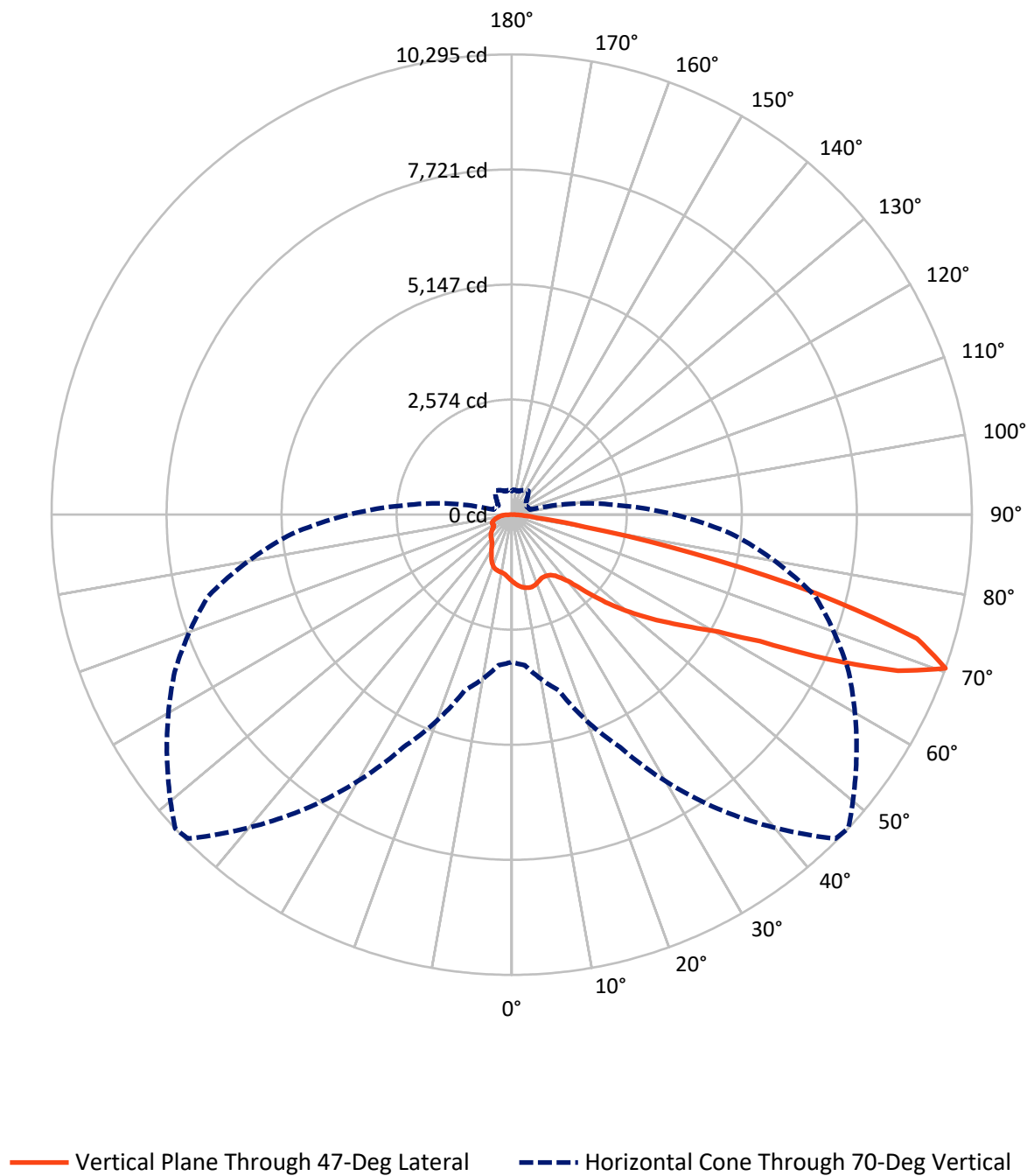


Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2676.9	0.0	2676.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	10154.5	0.0	10154.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	12831.4	0.0	12831.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	1.1
10°-20°	418.5	3.3
20°-30°	618.0	4.8
30°-40°	898.3	7.0
40°-50°	1616.6	12.6
50°-60°	2800.6	21.8
60°-70°	3997.3	31.2
70°-80°	2052.0	16.0
80°-90°	287.3	2.2
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°	12831.4	100.0
0°-180°	12831.4	100.0

Coefficient of Utilization



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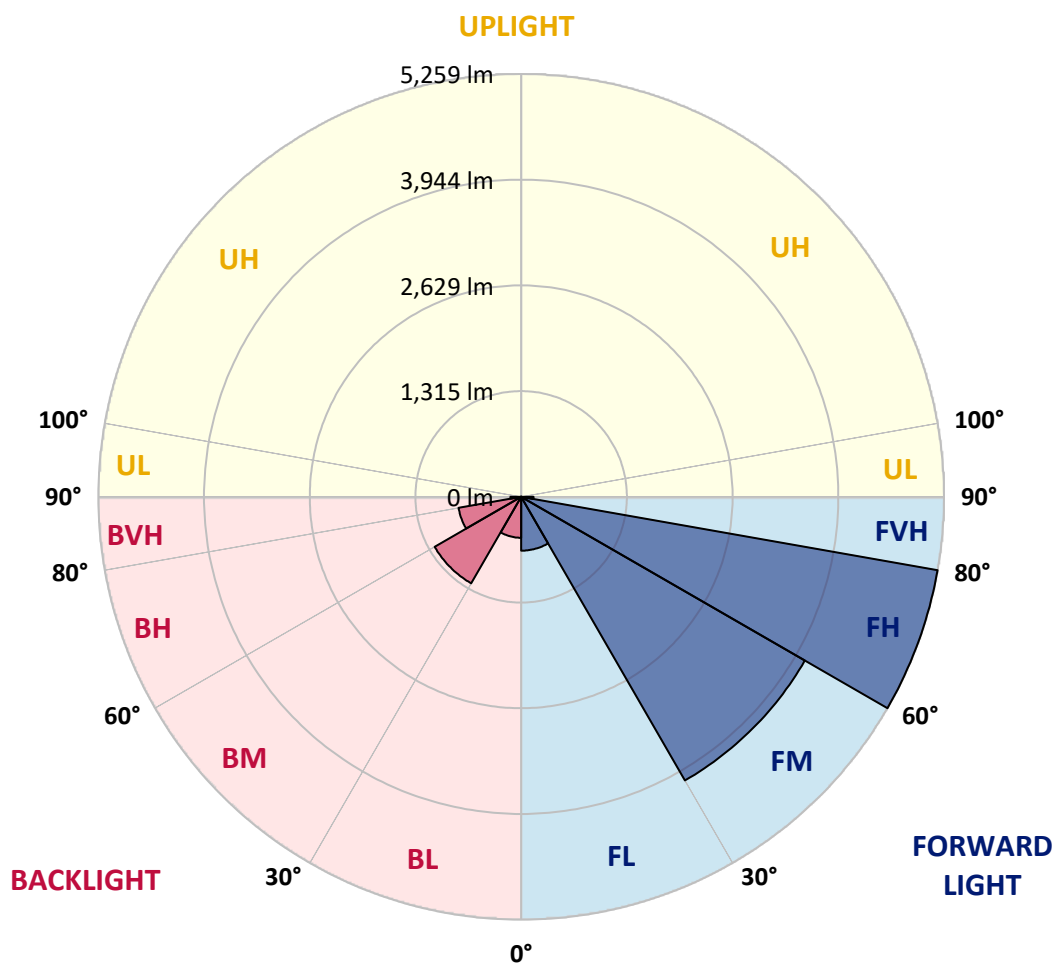
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	669.5	5.2			
FM	(30°-60°)	4073.0	31.7			
FH	(60°-80°)	5258.7	41.0			G3/7500
FVH	(80°-90°)	153.3	1.2			G2/225
BL	(0°-30°)	509.7	4.0	B2/1000		
BM	(30°-60°)	1242.5	9.7	B2/2500		
BH	(60°-80°)	790.7	6.2	B2/1000		G2/1000
BVH	(80°-90°)	134.0	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8
2.5°	1576.3	1573.2	1571.9	1569.4	1566.2	1550.6	1547.5	1536.3	1520.7	1504.5	1487.6
5°	1679.9	1679.2	1672.3	1659.8	1639.9	1605.6	1597.5	1569.9	1533.1	1497.6	1462.0
7.5°	1771.0	1765.4	1752.3	1727.3	1692.3	1645.6	1634.3	1596.2	1545.7	1497.0	1448.9
10°	1837.8	1834.7	1805.9	1771.6	1726.1	1674.3	1661.2	1618.6	1563.2	1501.3	1441.3
12.5°	1875.9	1869.7	1836.5	1795.3	1741.0	1690.5	1677.3	1634.3	1571.9	1501.3	1430.8
15°	1873.4	1869.0	1835.9	1791.0	1736.0	1691.8	1679.9	1636.8	1569.9	1495.1	1417.1
17.5°	1823.4	1825.2	1797.2	1752.9	1707.9	1674.3	1663.6	1623.7	1557.5	1482.6	1400.8
20°	1736.0	1744.8	1726.1	1686.8	1661.8	1638.7	1631.8	1598.1	1538.2	1464.5	1383.3
22.5°	1648.6	1656.8	1649.3	1616.2	1612.4	1598.7	1594.9	1570.6	1521.3	1453.2	1372.8
25°	1584.4	1591.8	1590.6	1561.9	1573.2	1572.5	1569.4	1557.5	1517.6	1453.2	1374.6
27.5°	1566.9	1569.4	1566.9	1540.7	1556.3	1568.8	1566.2	1564.4	1528.7	1471.4	1398.3
30°	1626.8	1623.0	1603.7	1550.6	1565.0	1582.5	1580.0	1581.2	1562.5	1518.8	1451.4
32.5°	1865.9	1849.0	1787.8	1638.7	1600.5	1609.9	1611.2	1631.8	1634.9	1591.8	1533.8
35°	2223.5	2204.9	2125.5	1874.7	1711.1	1678.7	1678.7	1709.8	1728.6	1696.7	1661.8
37.5°	2602.5	2581.9	2539.5	2201.8	1943.2	1797.9	1794.7	1816.6	1843.4	1851.0	1859.7
40°	3033.2	3011.4	3023.2	2568.8	2267.2	2004.5	1960.1	1944.6	2016.9	2065.0	2134.9
42.5°	3504.6	3494.5	3498.9	2977.7	2636.2	2313.4	2250.4	2169.9	2257.3	2342.8	2489.5
45°	3940.9	3949.6	3945.3	3415.3	3047.0	2690.5	2623.8	2467.6	2553.2	2699.9	2939.0
47.5°	4323.0	4286.8	4342.9	3893.5	3507.0	3112.6	3030.1	2821.0	2907.7	3088.8	3493.3
50°	4786.7	4781.7	4699.3	4531.4	4063.3	3536.4	3428.4	3186.2	3321.1	3572.6	4191.8
52.5°	5274.3	5183.8	5108.3	5027.8	4653.2	3970.9	3838.5	3550.2	3806.7	4123.2	5043.3
55°	5374.3	5333.6	5427.2	5562.7	5221.8	4422.2	4268.0	4006.4	4353.6	4752.4	6025.3
57.5°	5587.7	5587.1	5780.6	6022.2	5807.4	4901.1	4745.5	4557.6	4968.4	5473.5	7067.8
60°	5731.8	5772.5	6132.0	6600.9	6382.4	5454.1	5311.1	5193.7	5667.6	6279.3	8039.1
62.5°	5807.4	5862.3	6353.0	6835.6	7195.2	6374.8	6231.9	6062.8	6592.7	7163.2	8607.2
65°	5493.4	5601.4	6318.7	7038.5	7906.8	7867.4	7803.2	7506.0	7749.4	7861.9	8401.8
67.5°	4624.5	4735.0	5570.2	6849.4	8414.9	9307.0	9320.7	8813.2	8461.1	7921.8	7064.0
70°	3294.8	3381.6	4072.6	5742.4	8028.0	10247.8	10294.5	9415.6	8319.4	7025.4	4935.3
72.5°	1564.4	1617.5	2271.6	3737.4	6370.5	9389.4	9479.9	8646.6	7074.0	5201.3	2692.3
75°	574.9	591.2	767.9	1589.9	3694.9	6924.2	7031.0	6198.2	4689.4	2589.5	1025.6
77.5°	344.6	355.2	430.7	671.1	1453.2	3957.8	4115.7	3370.9	2049.3	963.8	504.4
80°	240.9	248.4	308.9	417.6	686.7	1508.3	1648.6	1375.9	816.5	609.8	367.1
82.5°	162.9	166.7	217.2	282.2	456.3	538.7	581.1	611.8	550.5	453.9	232.8
85°	106.7	110.5	147.3	186.1	290.3	278.4	284.6	360.2	402.0	308.3	129.3
87.5°	61.1	63.7	88.6	99.2	142.4	118.0	119.2	189.8	257.2	207.9	78.6
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°	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8
2.5°	1483.2	1475.1	1457.0	1445.7	1435.1	1432.6	1428.2	1427.7	1427.0	1427.0	1425.2
5°	1450.1	1436.4	1408.4	1392.7	1379.6	1378.3	1377.8	1380.8	1382.1	1383.3	1381.5
7.5°	1428.9	1410.2	1375.2	1352.7	1337.2	1333.4	1339.6	1354.0	1363.3	1367.2	1365.2
10°	1415.8	1392.7	1352.1	1327.8	1314.7	1312.8	1321.0	1337.8	1357.1	1364.6	1364.0
12.5°	1400.8	1374.6	1331.6	1305.9	1298.4	1302.2	1312.8	1328.4	1348.4	1360.3	1360.9
15°	1385.9	1355.3	1310.9	1288.5	1285.3	1290.4	1300.3	1312.2	1327.8	1339.6	1340.9
17.5°	1367.7	1335.9	1291.6	1268.5	1266.0	1268.5	1269.1	1275.4	1285.3	1296.6	1299.7
20°	1348.4	1315.9	1269.7	1246.6	1235.4	1225.5	1214.2	1215.4	1218.6	1229.8	1232.2
22.5°	1334.6	1302.2	1252.8	1221.1	1191.0	1161.1	1138.6	1135.5	1136.8	1146.1	1149.3
25°	1335.9	1301.6	1248.5	1193.5	1128.0	1079.9	1050.0	1044.9	1044.4	1051.3	1055.7
27.5°	1360.3	1325.9	1264.7	1165.5	1059.4	988.1	956.3	952.6	947.6	949.5	954.5
30°	1414.6	1382.6	1304.1	1136.8	985.1	898.3	865.3	861.5	854.6	851.4	855.2
32.5°	1503.2	1476.9	1361.5	1109.3	910.7	821.5	787.8	779.7	775.3	771.6	774.6
35°	1650.5	1639.3	1438.3	1079.4	845.2	762.2	731.6	719.2	712.9	719.8	724.7
37.5°	1881.5	1887.8	1538.8	1032.5	794.7	722.9	697.3	683.0	673.6	679.1	684.8
40°	2208.5	2212.9	1650.0	966.3	750.9	699.8	672.3	659.2	646.0	636.1	635.5
42.5°	2638.1	2593.9	1759.2	894.5	700.5	685.4	654.8	638.6	618.6	591.2	585.5
45°	3147.4	2992.1	1842.2	812.2	643.6	667.9	635.5	613.1	581.8	551.9	548.7
47.5°	3734.3	3419.7	1882.7	726.7	590.5	642.3	611.8	576.3	536.9	521.8	520.0
50°	4450.9	3927.3	1902.1	643.6	544.3	608.7	577.4	535.6	502.5	499.5	497.5
52.5°	5266.9	4537.6	1908.3	575.6	506.3	565.0	549.3	508.8	482.6	485.0	485.0
55°	6120.8	5168.2	1823.4	526.2	471.4	520.0	530.6	498.1	476.3	486.3	490.0
57.5°	6904.8	5727.0	1556.3	488.2	438.2	485.6	523.8	508.2	493.2	533.7	536.3
60°	7506.6	6057.2	1162.4	453.9	413.9	473.8	541.8	546.2	550.0	646.7	659.8
62.5°	7632.8	5947.3	799.0	426.9	402.6	483.8	574.9	575.6	571.2	638.6	646.7
65°	7054.1	5252.4	581.1	412.0	393.4	501.9	603.0	589.9	561.1	612.4	597.4
67.5°	5602.0	3957.2	483.8	400.8	379.5	500.6	632.9	603.0	555.6	600.0	575.6
70°	3636.2	2392.8	430.7	391.3	363.3	476.9	650.4	601.8	539.3	558.1	529.4
72.5°	1774.2	1069.9	395.2	377.7	346.5	443.8	649.9	590.5	522.5	521.2	505.7
75°	694.2	490.0	362.7	357.1	317.7	406.3	632.4	574.2	502.5	482.6	476.9
77.5°	406.3	349.6	321.4	326.4	283.4	369.0	606.8	546.2	475.1	451.4	445.1
80°	295.9	261.5	274.0	282.2	242.2	331.5	572.4	511.9	444.4	456.3	447.6
82.5°	189.8	168.6	222.3	230.3	201.6	293.4	535.0	475.8	401.4	364.6	355.8
85°	96.8	106.7	165.4	175.4	155.4	240.9	489.4	427.6	352.7	303.4	308.3
87.5°	54.3	72.9	105.6	118.0	110.0	185.4	397.0	352.7	287.8	234.2	206.0
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)