

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: P267139

Luminaire Tested: **GAN-AF-08-LED-U-AFL-7027-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-AFL-7027-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42520.7 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 445
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

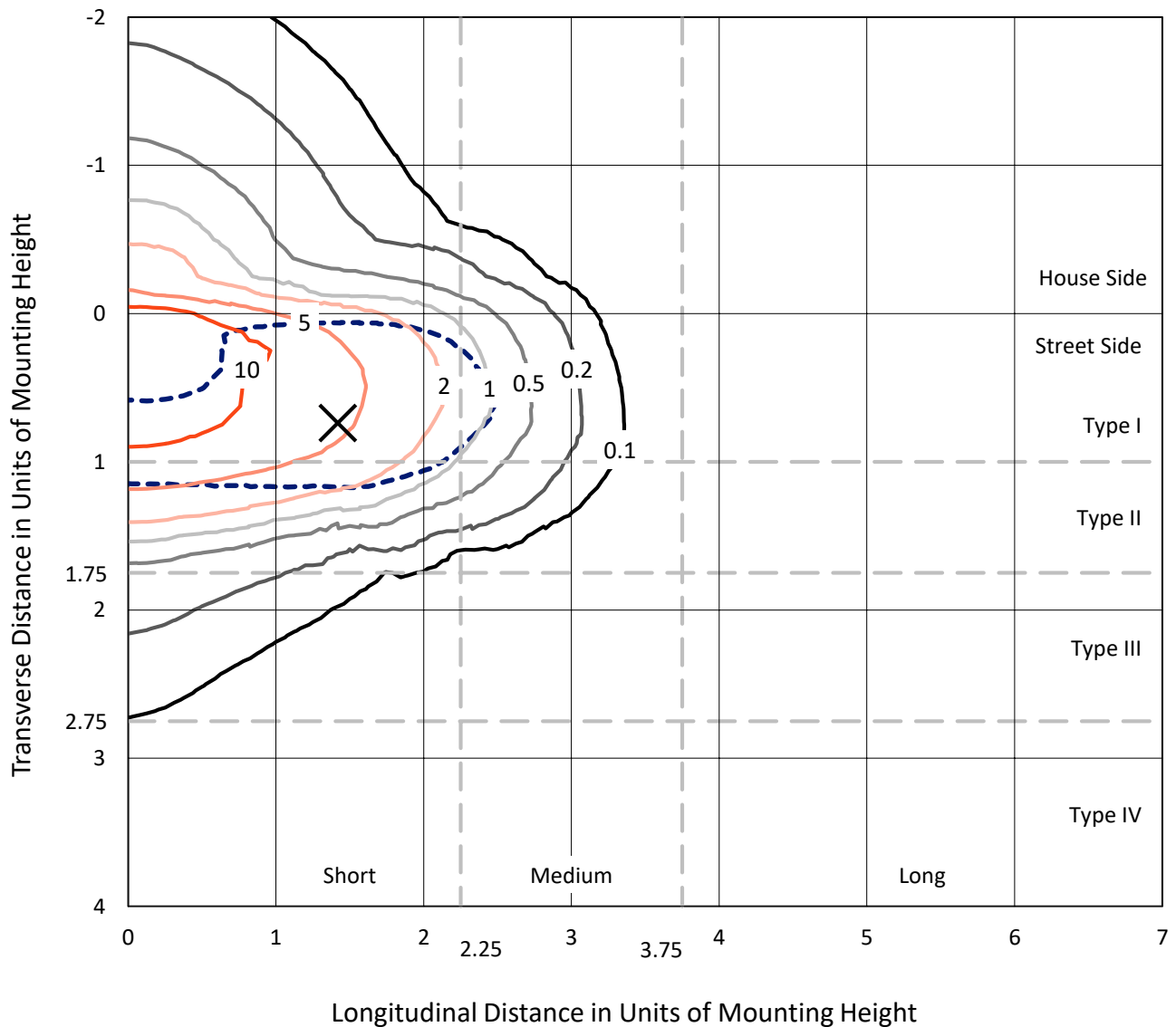


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

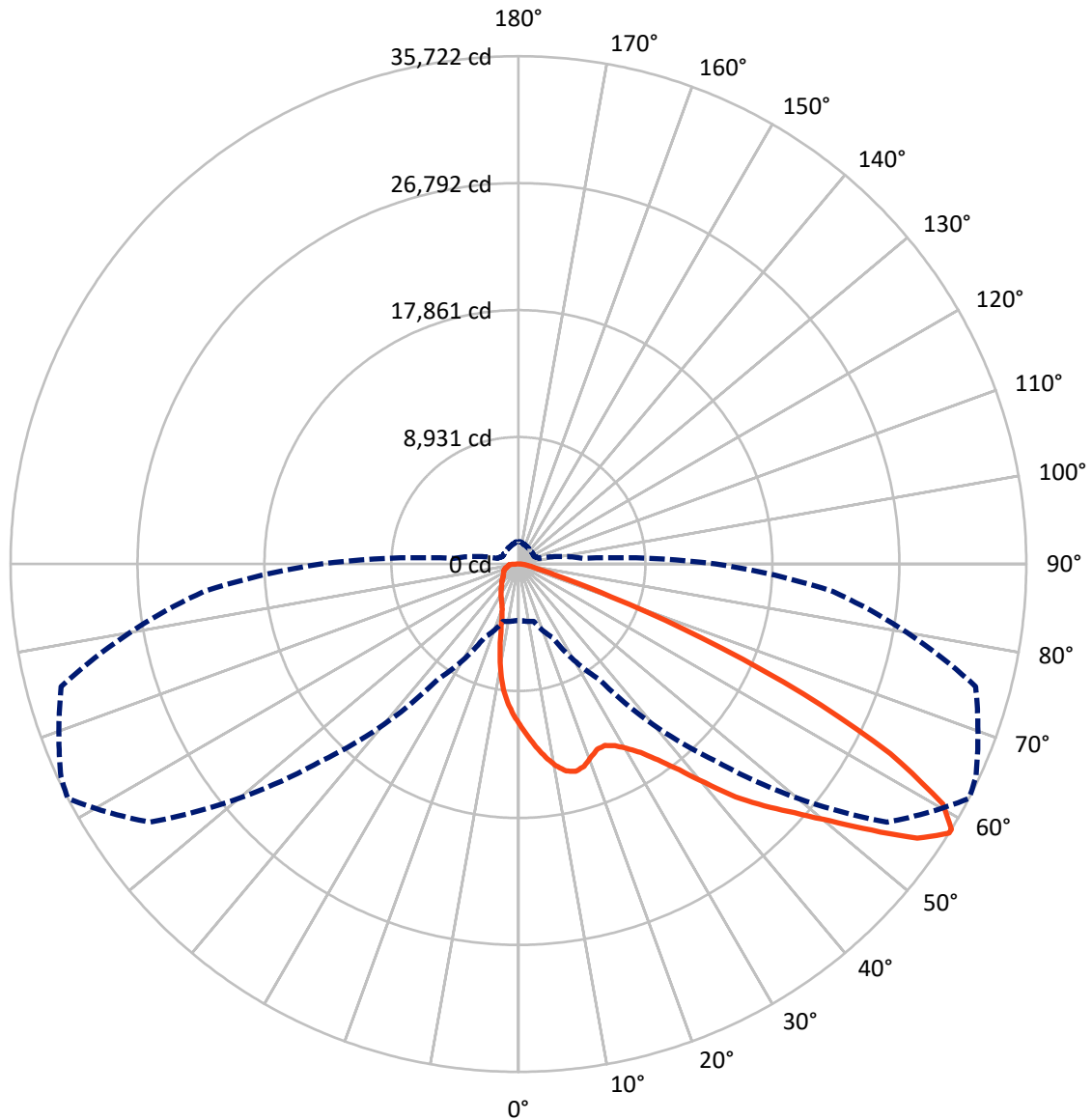


Based on 30 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6484.6	0.0	6484.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	36036.1	0.0	36036.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	42520.7	0.0	42520.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1010.2	2.4
10°-20°	2582.1	6.1
20°-30°	4174.1	9.8
30°-40°	6626.3	15.6
40°-50°	9695.6	22.8
50°-60°	10140.8	23.8
60°-70°	5991.2	14.1
70°-80°	1687.8	4.0
80°-90°	612.7	1.4
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°	42520.7	100.0
0°-180°	42520.7	100.0

Coefficient of Utilization



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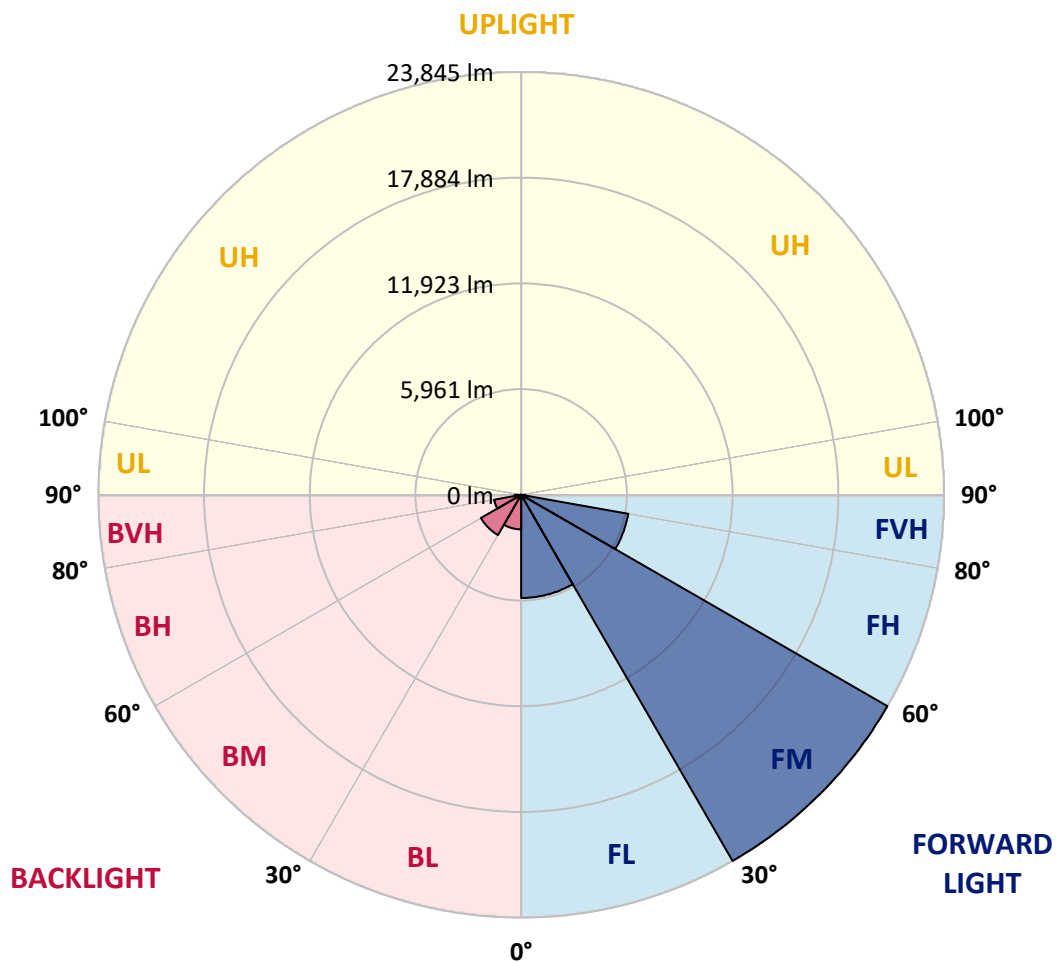
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5817.4	13.7			
FM (30°-60°)	23845.4	56.1			
FH (60°-80°)	6131.7	14.4			G3/7500
FVH (80°-90°)	241.7	0.6			G3/500
BL (0°-30°)	1948.9	4.6	B3/2500		
BM (30°-60°)	2617.3	6.2	B3/5000		
BH (60°-80°)	1547.3	3.6	B3/2500		G3/2500
BVH (80°-90°)	371.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	11294.7	11294.7	11294.7	11294.7	11294.7	11294.7	11294.7	11294.7	11294.7	11294.7	11294.7
2.5°	12906.6	12802.5	12736.3	12678.3	12602.2	12440.1	12221.8	12083.6	12013.6	11775.3	11492.9
5°	14172.0	14079.9	14011.9	13933.7	13797.5	13543.2	13190.9	12910.6	12772.5	12295.9	11731.2
7.5°	13875.7	13913.7	14031.9	14238.0	14414.4	14380.2	14065.9	13709.6	13527.2	12864.5	12007.6
10°	12089.7	12155.8	12360.0	12842.4	13623.3	14424.4	14668.6	14422.3	14238.0	13427.1	12291.9
12.5°	11731.2	11729.3	11745.2	11873.3	12338.0	13465.2	14688.5	14936.8	14826.7	13963.8	12582.2
15°	11877.4	11881.4	11869.5	11923.5	12067.7	12514.2	14075.9	15135.2	15213.2	14504.5	12882.6
17.5°	12261.9	12251.9	12205.8	12205.8	12257.8	12432.1	13355.1	14950.9	15311.3	14982.9	13146.9
20°	12906.6	12860.6	12738.3	12626.2	12570.3	12664.3	13058.8	14526.4	15141.1	15401.4	13365.2
22.5°	13687.5	13651.5	13453.1	13212.9	13018.6	13016.7	13211.0	14156.0	14846.7	15795.8	13549.3
25°	14696.6	14638.5	14344.2	13959.8	13619.5	13489.3	13543.2	14138.0	14686.6	16224.4	13713.4
27.5°	15881.9	15775.9	15427.4	14872.8	14372.3	14109.9	14031.9	14464.4	14832.8	16754.9	13941.8
30°	17319.6	17197.4	16751.0	16028.1	15321.3	14890.8	14724.7	15042.9	15317.3	17401.6	14308.2
32.5°	18955.5	18779.2	18262.6	17465.7	16536.7	15880.0	15609.7	15807.8	16026.1	18180.5	14766.7
35°	21216.0	21005.7	20258.8	19159.7	18110.5	17207.5	16774.9	16919.0	17131.3	19341.9	15429.5
37.5°	22757.8	22663.6	22167.0	21133.9	19992.6	18953.3	18284.7	18368.7	18488.8	20793.4	16278.4
40°	22743.6	22781.7	22791.7	22801.8	22025.0	21029.9	20310.9	20222.9	20198.7	22387.3	17243.4
42.5°	21604.3	21760.6	22265.2	23288.3	23760.9	23304.3	22645.6	22391.3	22265.2	24265.5	18266.7
45°	19860.4	19944.6	20889.6	22887.8	24649.9	25556.9	25058.3	24257.4	24029.1	25991.4	19115.7
47.5°	18961.5	19053.5	19648.2	21826.7	24639.8	27376.9	27665.2	26139.5	25731.1	27493.0	19848.4
50°	16821.0	17013.2	17762.0	19980.6	23740.9	28213.8	30390.3	28382.0	27537.2	28954.7	20583.3
52.5°	12890.6	13186.8	14025.9	16945.2	21460.2	27799.4	32570.8	31101.2	29907.8	30468.4	21214.0
55°	8131.2	8351.5	9056.3	11967.5	17167.4	25642.9	33397.7	34042.4	32981.4	31902.0	21760.6
57.5°	4421.0	4519.2	4783.5	6607.5	11166.7	20875.6	32192.4	35716.4	35275.8	33119.4	22173.0
58°	3956.4	4022.5	4186.7	5726.4	9903.2	19572.1	31657.8	35722.4	35502.2	33297.7	22205.2
60°	2935.3	2901.3	2755.1	3267.7	5512.2	13521.3	28426.1	34292.7	34939.4	33515.9	22048.9
62.5°	2578.9	2496.7	2198.5	2164.5	2681.0	6229.0	21750.7	29375.1	30903.0	32270.4	21099.8
65°	2422.6	2334.7	1950.2	1826.1	1934.2	2635.0	12812.4	22030.9	23947.0	28494.1	18673.1
67.5°	2306.6	2192.5	1791.9	1621.8	1629.9	1742.0	5135.8	13875.7	16032.1	21634.4	14524.4
70°	2194.5	2070.4	1657.9	1461.6	1415.5	1377.6	2042.2	6945.9	8902.1	13665.5	9260.4
72.5°	2074.4	1952.1	1539.8	1335.5	1245.4	1119.3	1333.5	2841.2	3968.5	6465.3	4200.7
75°	1900.2	1790.1	1421.6	1223.4	1095.3	927.1	1007.1	1483.7	1780.0	2574.9	2024.3
77.5°	1685.8	1595.7	1289.4	1131.2	971.1	752.9	774.9	1029.2	1141.2	1473.7	1203.4
80°	1211.4	1243.4	1147.2	1017.2	865.0	610.7	594.7	750.9	810.9	947.1	783.0
82.5°	851.0	869.0	949.1	830.9	714.8	480.6	438.6	528.7	564.7	622.7	422.5
85°	586.7	566.7	650.7	578.7	516.5	320.3	300.4	358.5	380.4	386.5	218.3
87.5°	352.3	352.3	376.4	310.4	278.4	166.1	162.1	204.3	218.3	208.2	120.2
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°	11294.7	11294.7	11294.7	11294.7	11294.7	11294.7	11294.7	11294.7	11294.7	11294.7	11294.7
2.5°	11324.8	11182.6	10880.4	10638.0	10331.6	10013.2	9835.2	9644.9	9514.8	9420.6	9570.8
5°	11410.9	11120.6	10495.8	9903.2	9248.5	8567.7	8051.1	7570.6	7236.1	7027.9	7224.2
7.5°	11547.1	11100.5	10105.5	9092.3	7916.9	6783.7	5770.5	5135.8	4765.4	4583.2	4697.2
10°	11703.2	11068.5	9646.9	7992.9	6311.1	4883.5	4126.6	3870.3	3786.3	3752.2	3768.3
12.5°	11833.4	11000.5	9084.3	6663.5	4739.4	3856.3	3638.1	3632.0	3650.2	3654.1	3660.1
15°	11925.4	10900.4	8249.3	5277.9	3790.3	3514.0	3502.0	3538.1	3572.0	3586.0	3594.1
17.5°	11987.5	10694.1	7306.3	4172.6	3395.9	3347.8	3375.8	3421.9	3457.9	3467.9	3475.9
20°	11981.6	10391.8	6182.9	3479.9	3181.5	3181.5	3229.6	3265.7	3267.7	3255.6	3261.7
22.5°	11919.5	9977.3	5093.7	3111.5	2991.4	3025.4	3073.6	3039.4	2899.3	2807.2	2813.2
25°	11815.3	9482.7	4160.7	2877.2	2815.2	2875.2	2861.2	2604.9	2404.8	2314.7	2314.7
27.5°	11723.2	8898.0	3443.9	2673.0	2639.0	2713.2	2464.8	2232.5	2148.4	2106.3	2092.3
30°	11657.1	8267.3	2965.3	2476.7	2472.9	2418.7	2138.4	2074.4	2060.4	2026.2	2014.3
32.5°	11673.1	7628.6	2659.1	2304.6	2318.6	2070.4	1982.2	1996.3	1984.3	1948.2	1932.2
35°	11805.3	7022.0	2458.8	2148.4	2106.3	1870.1	1890.2	1916.2	1912.1	1862.0	1846.0
37.5°	12041.6	6447.2	2326.6	2018.3	1838.1	1770.0	1802.0	1842.1	1832.1	1798.0	1786.0
40°	12289.9	5906.6	2218.5	1916.2	1679.9	1701.8	1730.0	1752.0	1761.9	1771.9	1764.0
42.5°	12532.2	5342.0	2086.4	1812.1	1613.8	1637.9	1649.8	1671.8	1726.0	1764.0	1761.9
45°	12676.3	4811.4	1950.2	1663.9	1561.8	1575.7	1567.8	1611.7	1677.9	1739.9	1742.0
47.5°	12836.5	4399.0	1842.1	1527.7	1511.7	1521.6	1497.7	1541.8	1601.8	1677.9	1685.8
50°	13030.8	4152.7	1755.9	1419.6	1443.7	1443.7	1437.6	1477.7	1561.8	1649.8	1665.8
52.5°	13251.0	4104.6	1684.0	1341.4	1375.6	1373.6	1379.5	1439.7	1531.7	1617.8	1631.9
55°	13519.3	4234.8	1605.8	1283.5	1309.5	1317.5	1337.4	1405.6	1483.7	1581.7	1587.8
57.5°	13831.7	4499.2	1543.7	1237.3	1249.5	1275.5	1307.5	1369.6	1453.6	1561.8	1567.8
58°	13883.7	4555.1	1533.8	1233.5	1237.3	1267.4	1303.5	1363.5	1447.6	1565.7	1571.8
60°	13885.7	4741.3	1511.7	1215.3	1191.3	1241.4	1281.4	1341.4	1437.6	1579.8	1593.9
62.5°	13393.1	4739.4	1495.7	1189.4	1143.4	1205.3	1251.3	1321.4	1427.5	1613.8	1641.8
65°	11793.3	4306.8	1419.6	1149.3	1105.3	1173.4	1225.4	1307.5	1455.7	1761.9	1780.0
67.5°	9224.4	3530.0	1277.4	1093.2	1055.1	1141.2	1209.4	1305.4	1485.6	1796.0	1808.1
70°	6099.0	2640.9	1121.3	1029.2	1003.1	1103.3	1217.4	1373.6	1451.7	1723.9	1691.9
72.5°	3165.5	1854.1	995.1	949.1	943.1	1069.3	1333.5	1365.6	1417.5	1621.8	1581.7
75°	1661.9	1287.5	885.0	860.9	870.9	1061.2	1573.8	1329.5	1373.6	1551.7	1627.9
77.5°	1017.2	1039.2	790.9	780.8	800.8	1037.2	1571.8	1283.5	1309.5	1427.5	1511.7
80°	680.7	843.0	718.9	720.8	734.9	949.1	1411.5	1211.4	1231.3	1349.6	1435.6
82.5°	430.5	498.6	652.8	686.8	668.8	783.0	1199.3	1103.3	1131.2	1543.7	1631.9
85°	218.3	312.3	566.7	660.8	602.8	548.7	973.1	967.0	981.0	1113.3	1163.3
87.5°	100.2	172.1	442.4	576.6	454.5	342.3	706.7	716.8	772.9	790.9	790.9
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)