

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: P268578

Luminaire Tested: **GAN-AF-06-LED-U-AFL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268578
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-06-LED-U-AFL-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34809.2 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 382
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

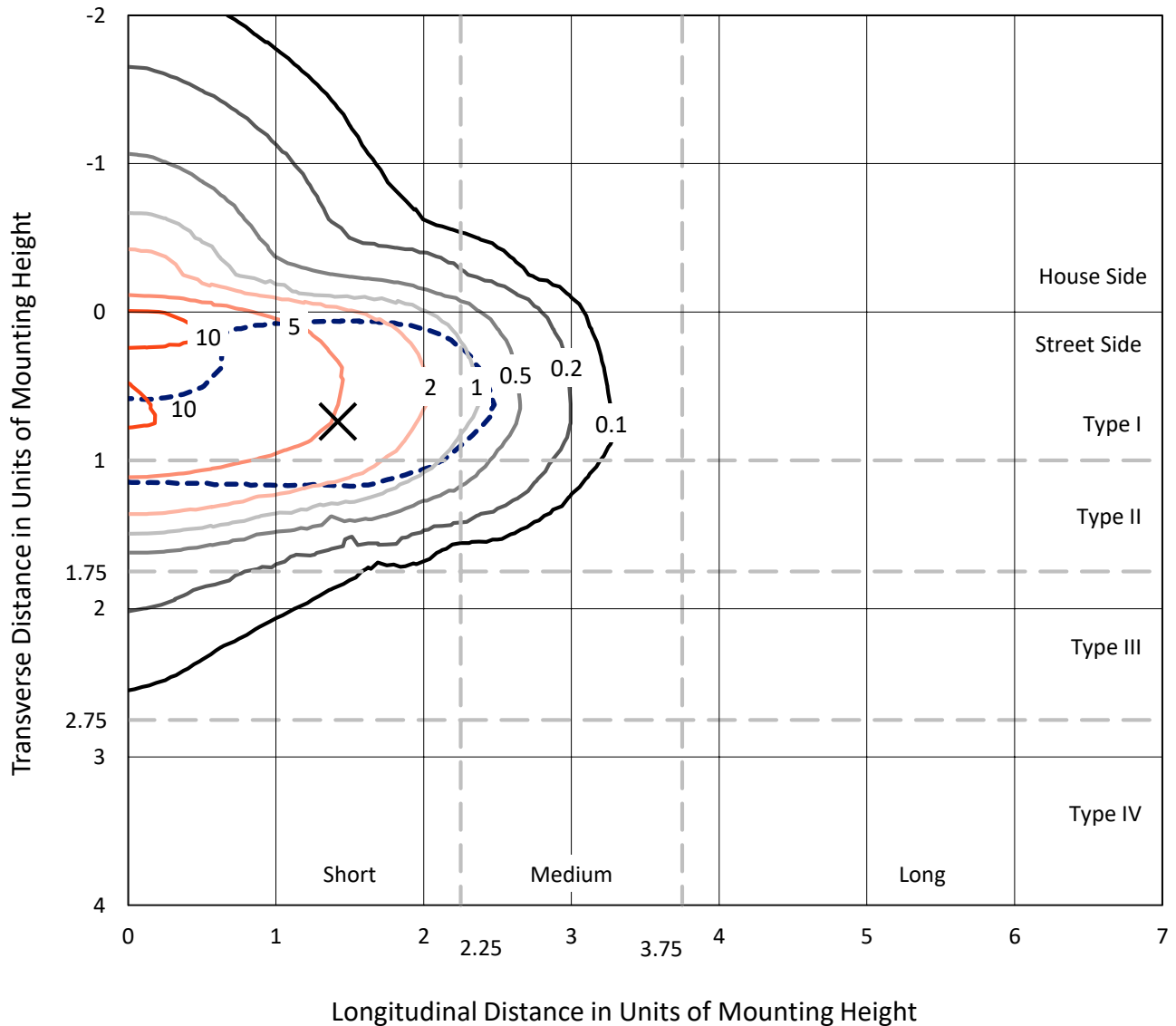


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

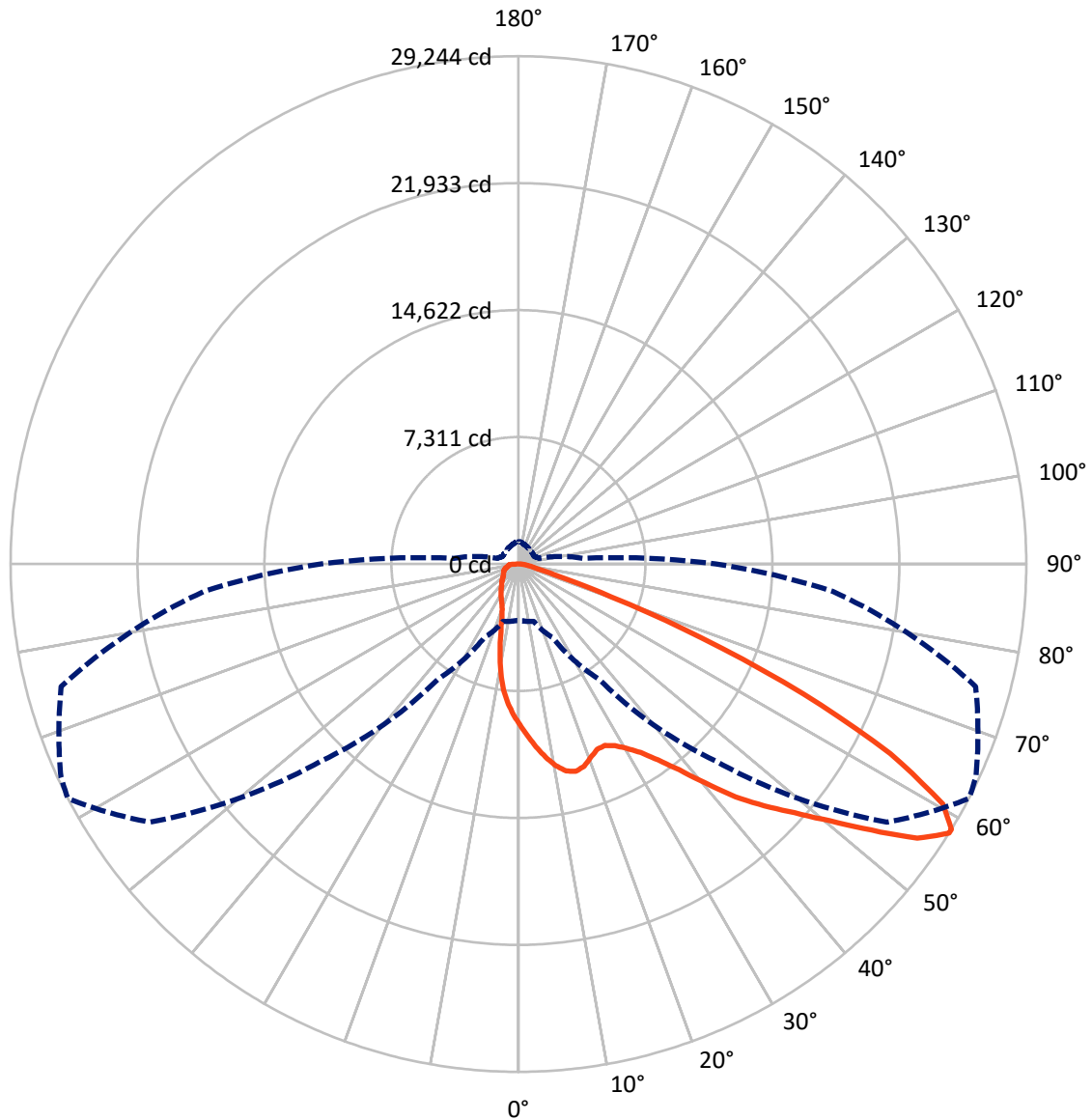


Based on 30 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - Full Cutoff

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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	5308.5	0.0	5308.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	29500.7	0.0	29500.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	34809.2	0.0	34809.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.0	2.4
10°-20°	2113.8	6.1
20°-30°	3417.0	9.8
30°-40°	5424.5	15.6
40°-50°	7937.2	22.8
50°-60°	8301.7	23.8
60°-70°	4904.6	14.1
70°-80°	1381.7	4.0
80°-90°	501.6	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°	34809.2	100.0
0°-180°	34809.2	100.0

Coefficient of Utilization



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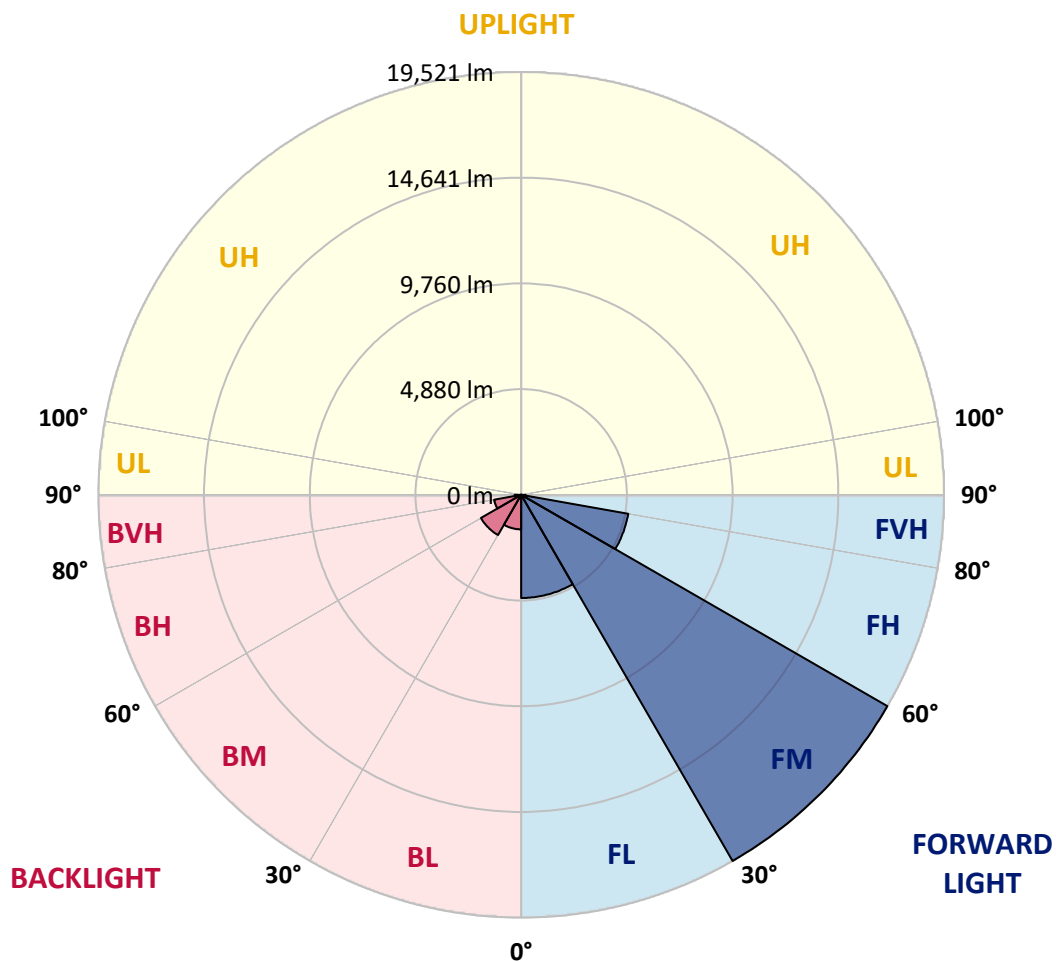
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4762.3	13.7			
FM (30°-60°)	19520.8	56.1			
FH (60°-80°)	5019.6	14.4			G3/7500
FVH (80°-90°)	197.9	0.6			G2/225
BL (0°-30°)	1595.5	4.6	B3/2500		
BM (30°-60°)	2142.6	6.2	B2/2500		
BH (60°-80°)	1266.7	3.6	B3/2500		G3/2500
BVH (80°-90°)	303.7	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°	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3
2.5°	10565.9	10480.6	10426.5	10378.9	10316.8	10183.9	10005.3	9892.1	9834.9	9639.7	9408.7
5°	11601.8	11526.4	11470.6	11406.8	11295.3	11087.2	10798.6	10569.2	10456.0	10066.0	9603.7
7.5°	11359.2	11390.4	11487.0	11655.9	11800.1	11772.3	11515.0	11223.2	11073.9	10531.4	9830.0
10°	9897.0	9951.2	10118.4	10513.5	11152.6	11808.3	12008.4	11806.8	11655.9	10992.0	10062.6
12.5°	9603.7	9602.1	9615.2	9720.1	10100.4	11023.2	12024.7	12228.0	12137.8	11431.3	10300.3
15°	9723.3	9726.6	9716.7	9761.1	9879.1	10244.6	11523.1	12390.2	12454.1	11873.8	10546.2
17.5°	10038.1	10029.8	9992.1	9992.1	10034.7	10177.3	10933.0	12239.4	12534.5	12265.6	10762.6
20°	10565.9	10528.1	10428.2	10336.3	10290.5	10367.5	10690.4	11891.9	12395.2	12608.3	10941.3
22.5°	11205.1	11175.6	11013.3	10816.6	10657.6	10656.1	10815.1	11588.7	12154.2	12931.1	11092.0
25°	12031.3	11983.7	11742.7	11428.1	11149.5	11042.9	11087.2	11573.9	12023.0	13281.9	11226.5
27.5°	13001.6	12914.8	12629.5	12175.4	11765.7	11550.9	11487.0	11841.1	12142.7	13716.3	11413.2
30°	14178.5	14078.5	13712.9	13121.3	12542.7	12190.3	12054.1	12314.9	12539.4	14245.7	11713.3
32.5°	15517.7	15373.5	14950.5	14298.2	13537.5	13000.0	12778.7	12941.0	13119.7	14883.4	12088.6
35°	17368.3	17196.2	16584.8	15684.9	14825.9	14086.7	13732.7	13850.6	14024.5	15834.1	12631.2
37.5°	18630.4	18553.4	18146.9	17301.0	16366.8	15516.1	14968.5	15037.4	15135.8	17022.4	13326.1
40°	18618.9	18650.2	18658.2	18666.5	18030.5	17215.8	16627.4	16555.3	16535.6	18327.2	14116.2
42.5°	17686.3	17814.1	18227.1	19064.8	19451.5	19077.9	18538.6	18330.5	18227.1	19864.7	14953.8
45°	16258.6	16327.5	17101.2	18736.9	20179.3	20922.0	20513.8	19858.1	19671.3	21277.7	15648.8
47.5°	15522.6	15598.0	16084.8	17868.1	20171.3	22412.0	22647.9	21399.0	21064.5	22506.9	16248.7
50°	13770.4	13927.7	14540.8	16357.0	19435.2	23097.0	24878.7	23234.8	22543.1	23703.5	16850.2
52.5°	10552.7	10795.3	11482.1	13871.9	17568.2	22757.8	26663.9	25460.8	24483.8	24942.7	17366.7
55°	6656.5	6836.8	7413.8	9797.2	14054.0	20992.4	27340.8	27868.6	26999.8	26116.3	17814.1
57.5°	3619.2	3699.5	3915.9	5409.1	9141.4	17089.6	26354.0	29238.9	28878.4	27113.0	18151.8
58°	3238.8	3293.0	3427.5	4688.0	8107.2	16022.6	25916.5	29243.9	29063.6	27258.8	18178.0
60°	2403.0	2375.1	2255.5	2675.1	4512.5	11069.0	23270.9	28073.6	28602.9	27437.6	18050.2
62.5°	2111.1	2044.1	1799.8	1771.8	2194.7	5099.4	17805.9	24047.7	25298.3	26418.0	17273.1
65°	1983.4	1911.2	1596.5	1494.9	1583.4	2157.1	10488.8	18035.5	19604.0	23326.6	15286.5
67.5°	1888.2	1794.9	1467.0	1327.8	1334.3	1426.1	4204.3	11359.2	13124.5	17710.9	11890.2
70°	1796.5	1694.8	1357.2	1196.5	1158.9	1127.7	1671.9	5686.1	7287.6	11187.1	7580.9
72.5°	1698.2	1598.2	1260.5	1093.2	1019.5	916.4	1091.7	2325.9	3248.8	5292.8	3438.9
75°	1555.5	1465.3	1163.8	1001.5	896.6	758.9	824.5	1214.6	1457.2	2108.0	1657.2
77.5°	1380.2	1306.3	1055.6	926.2	795.0	616.2	634.4	842.5	934.2	1206.5	985.1
80°	991.6	1017.9	939.2	832.6	708.1	499.9	486.8	614.7	663.8	775.2	640.9
82.5°	696.6	711.4	776.9	680.2	585.2	393.4	359.0	432.8	462.3	509.8	345.8
85°	480.2	463.9	532.8	473.6	422.9	262.2	245.9	293.3	311.4	316.4	178.7
87.5°	288.4	288.4	308.2	254.1	227.8	136.1	132.8	167.2	178.7	170.5	98.4
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°	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3	9246.3
2.5°	9271.0	9154.5	8907.1	8708.7	8457.9	8197.4	8051.4	7895.7	7789.2	7712.0	7835.0
5°	9341.5	9103.8	8592.4	8107.2	7571.2	7013.8	6591.0	6197.5	5923.9	5753.4	5914.0
7.5°	9452.9	9087.3	8272.8	7443.4	6481.1	5553.4	4723.9	4204.3	3901.1	3752.0	3845.5
10°	9580.8	9061.2	7897.4	6543.4	5166.5	3997.8	3378.3	3168.4	3099.6	3071.8	3084.9
12.5°	9687.3	9005.4	7436.8	5455.0	3879.8	3157.0	2978.3	2973.4	2988.1	2991.4	2996.3
15°	9762.7	8923.5	6753.3	4320.8	3102.8	2876.7	2866.9	2896.3	2924.3	2935.8	2942.3
17.5°	9813.5	8754.6	5981.3	3416.0	2780.0	2740.5	2763.5	2801.3	2830.7	2839.0	2845.6
20°	9808.7	8507.0	5061.7	2848.9	2604.5	2604.5	2643.9	2673.4	2675.1	2665.2	2670.1
22.5°	9757.7	8167.7	4169.9	2547.2	2448.9	2476.7	2516.1	2488.2	2373.5	2298.0	2303.0
25°	9672.5	7763.0	3406.2	2355.4	2304.6	2353.7	2342.3	2132.5	1968.5	1894.9	1894.9
27.5°	9597.1	7284.4	2819.3	2188.2	2160.3	2221.0	2017.8	1827.6	1758.8	1724.3	1712.9
30°	9543.1	6768.0	2427.6	2027.7	2024.3	1980.0	1750.5	1698.2	1686.7	1658.8	1649.0
32.5°	9556.2	6245.0	2176.8	1886.6	1898.1	1694.8	1622.8	1634.2	1624.3	1594.9	1581.7
35°	9664.3	5748.4	2012.8	1758.8	1724.3	1530.9	1547.3	1568.6	1565.3	1524.5	1511.3
37.5°	9857.8	5278.0	1904.6	1652.3	1504.8	1449.0	1475.2	1508.1	1499.8	1472.0	1462.1
40°	10060.9	4835.4	1816.2	1568.6	1375.2	1393.4	1416.2	1434.2	1442.5	1450.7	1444.0
42.5°	10259.4	4373.2	1707.9	1483.5	1321.1	1340.8	1350.6	1368.7	1412.9	1444.0	1442.5
45°	10377.4	3938.9	1596.5	1362.1	1278.5	1290.0	1283.5	1319.5	1373.6	1424.4	1426.1
47.5°	10508.6	3601.1	1508.1	1250.7	1237.5	1245.7	1226.0	1262.1	1311.3	1373.6	1380.2
50°	10667.6	3399.5	1437.5	1162.1	1181.8	1181.8	1176.9	1209.7	1278.5	1350.6	1363.7
52.5°	10847.8	3360.2	1378.4	1098.2	1126.0	1124.5	1129.3	1178.5	1253.9	1324.5	1335.9
55°	11067.5	3466.7	1314.6	1050.7	1071.9	1078.5	1094.9	1150.6	1214.6	1294.8	1299.8
57.5°	11323.1	3683.1	1263.7	1013.0	1022.8	1044.1	1070.4	1121.2	1190.1	1278.5	1283.5
58°	11365.7	3729.0	1255.7	1009.8	1013.0	1037.5	1067.0	1116.2	1185.1	1281.8	1286.7
60°	11367.4	3881.4	1237.5	995.0	975.3	1016.3	1049.0	1098.2	1176.9	1293.3	1304.8
62.5°	10964.2	3879.8	1224.4	973.7	935.9	986.8	1024.4	1081.7	1168.8	1321.1	1344.1
65°	9654.5	3525.8	1162.1	940.9	904.9	960.6	1003.1	1070.4	1191.6	1442.5	1457.2
67.5°	7551.5	2889.8	1045.7	895.0	863.8	934.2	990.0	1068.8	1216.2	1470.3	1480.1
70°	4992.8	2162.0	917.9	842.5	821.2	903.2	996.6	1124.5	1188.4	1411.2	1385.0
72.5°	2591.5	1517.9	814.7	776.9	772.1	875.3	1091.7	1117.9	1160.5	1327.8	1294.8
75°	1360.6	1053.9	724.6	704.8	713.1	868.8	1288.3	1088.3	1124.5	1270.4	1332.6
77.5°	832.6	850.8	647.5	639.2	655.7	849.1	1286.7	1050.7	1071.9	1168.8	1237.5
80°	557.3	690.1	588.5	590.0	601.5	776.9	1155.6	991.6	1008.1	1104.7	1175.3
82.5°	352.4	408.1	534.3	562.2	547.4	640.9	981.8	903.2	926.2	1263.7	1335.9
85°	178.7	255.7	463.9	540.9	493.3	449.2	796.6	791.6	803.2	911.4	952.4
87.5°	81.9	140.9	362.2	472.1	372.1	280.4	578.6	586.9	632.6	647.5	647.5
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)