

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: P193113

Luminaire Tested: **GAN-AF-05-LED-U-T2-7030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193113
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-05-LED-U-T2-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28235.9 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

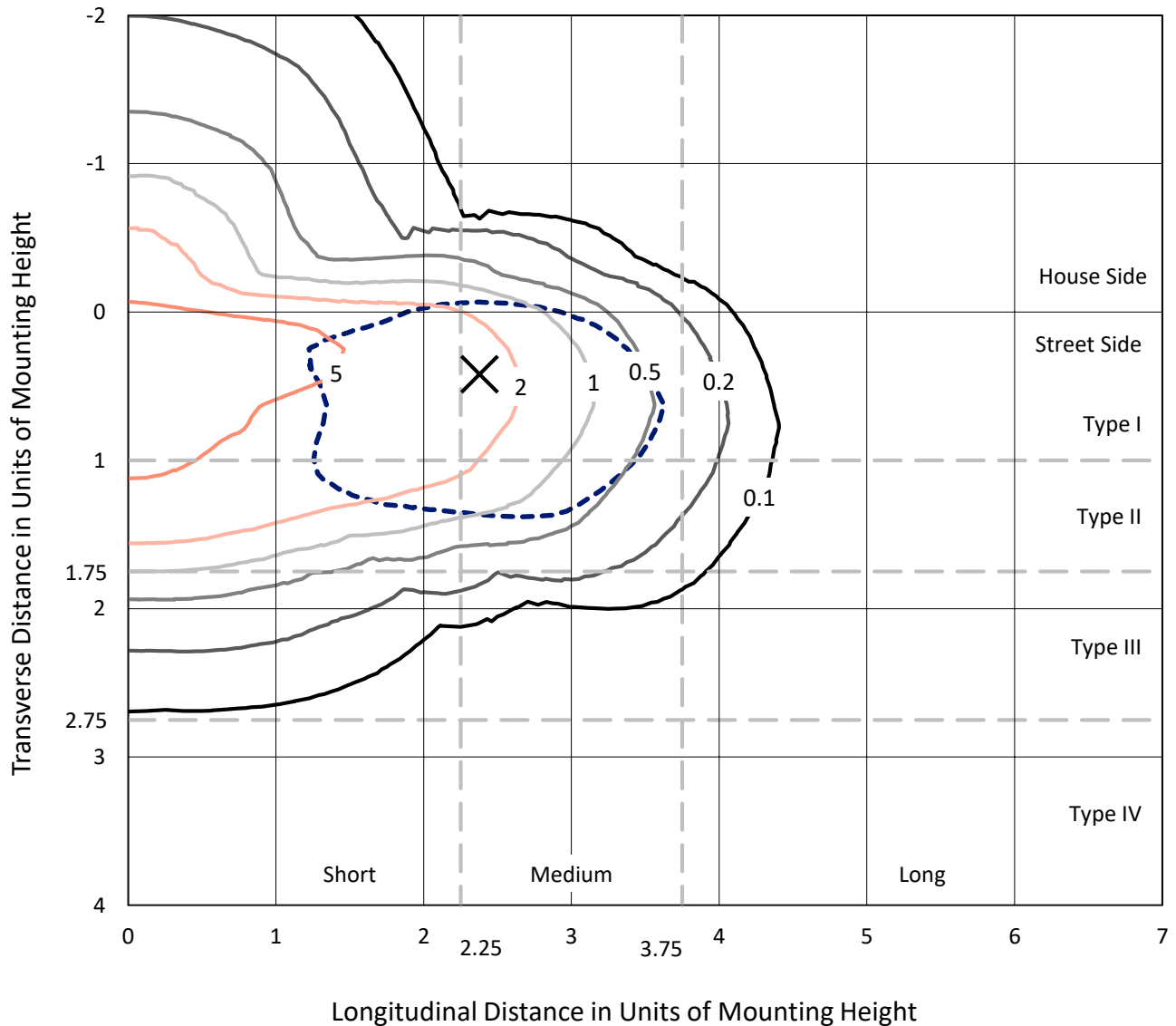
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

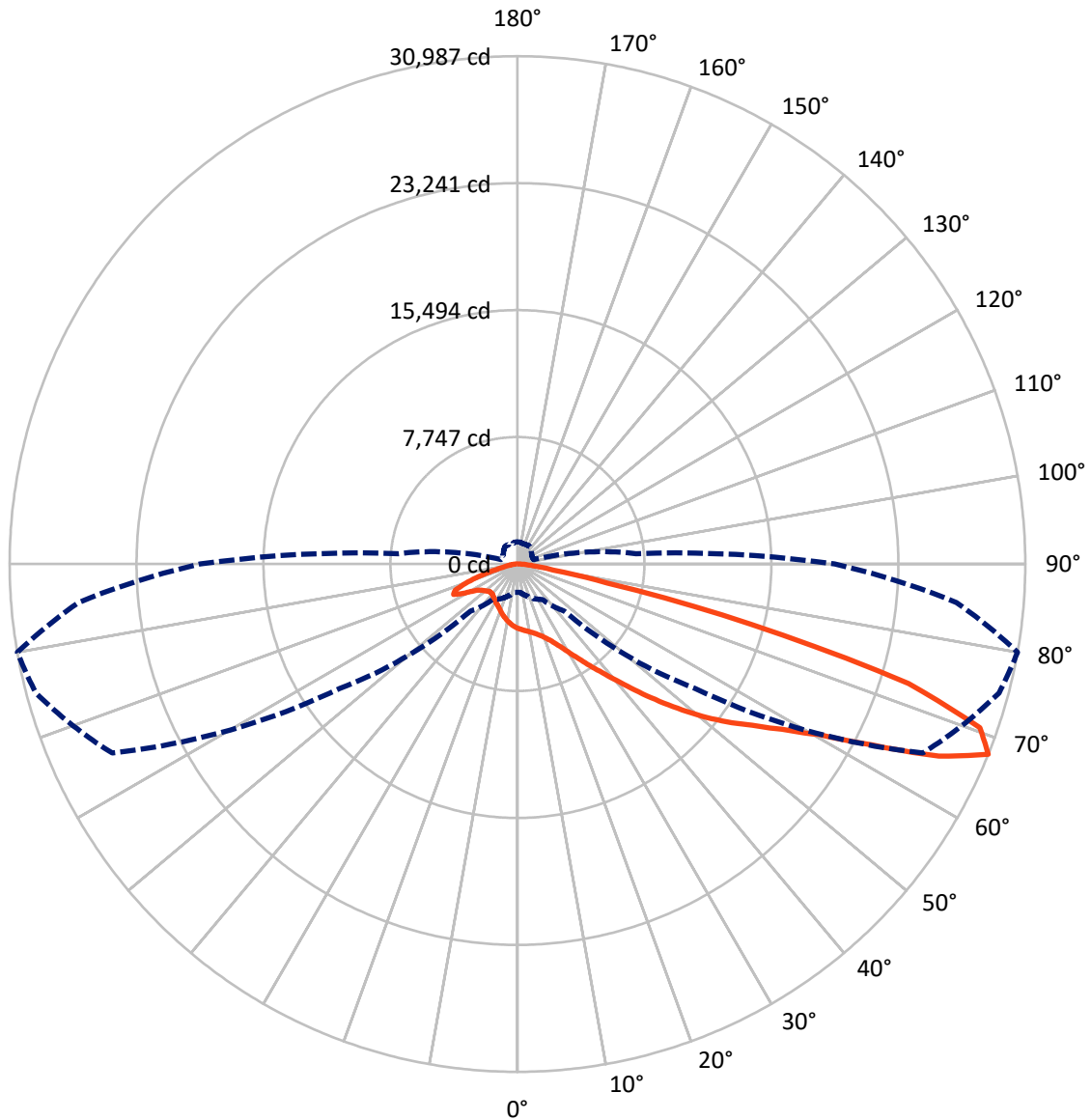
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	5200.0	0.0	5200.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	23035.9	0.0	23035.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	28235.9	0.0	28235.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.9	1.3
10°-20°	1042.4	3.7
20°-30°	1725.4	6.1
30°-40°	2822.3	10.0
40°-50°	4556.9	16.1
50°-60°	6578.9	23.3
60°-70°	7260.2	25.7
70°-80°	3346.5	11.9
80°-90°	541.3	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°	28235.9	100.0
0°-180°	28235.9	100.0



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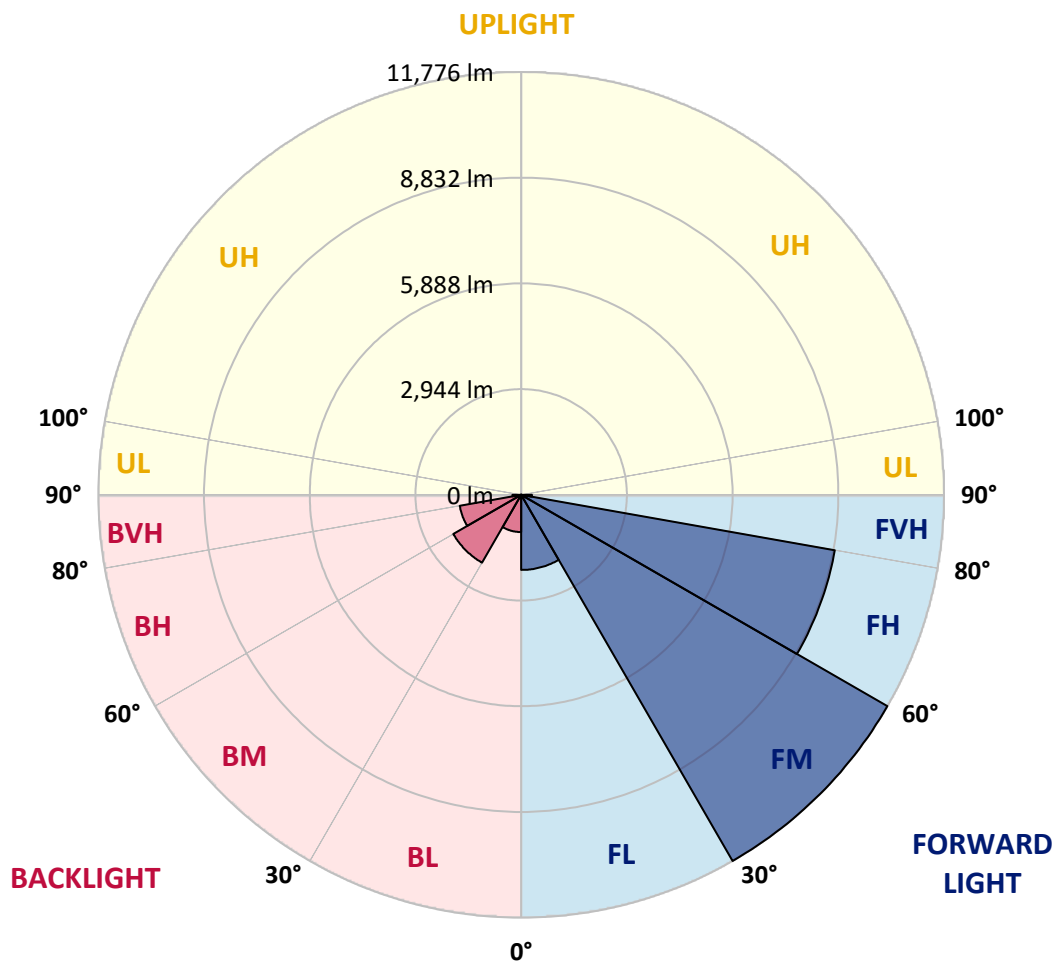
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2092.2	7.4			
FM (30°-60°)	11776.5	41.7			
FH (60°-80°)	8869.6	31.4			G4/12000
FVH (80°-90°)	297.6	1.1			G3/500
BL (0°-30°)	1037.5	3.7	B3/2500		
BM (30°-60°)	2181.7	7.7	B2/2500		
BH (60°-80°)	1737.1	6.2	B3/2500		G3/2500
BVH (80°-90°)	243.7	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3922.7	3922.7	3922.7	3922.7	3922.7	3922.7	3922.7	3922.7	3922.7	3922.7	3922.7
2.5°	4291.1	4266.1	4270.3	4263.4	4242.5	4206.4	4167.4	4096.5	4022.8	3983.9	3953.3
5°	4649.7	4642.9	4633.1	4610.8	4558.1	4483.0	4389.8	4264.7	4129.9	4059.0	3990.9
7.5°	4918.1	4913.9	4901.4	4887.5	4836.1	4745.6	4605.3	4427.4	4231.4	4134.1	4028.4
10°	4940.2	4947.3	4957.0	4994.6	5001.5	4952.8	4809.7	4594.3	4337.0	4212.0	4077.1
12.5°	4751.2	4766.6	4804.1	4899.9	5001.5	5061.2	4987.5	4769.3	4460.7	4309.1	4138.2
15°	4501.1	4509.3	4555.2	4687.3	4869.4	5054.4	5123.8	4962.5	4620.6	4434.3	4230.0
17.5°	4394.0	4398.2	4430.1	4517.8	4687.3	4951.4	5200.3	5172.5	4816.5	4590.0	4342.6
20°	4339.8	4349.5	4395.4	4481.6	4588.7	4819.4	5211.3	5399.0	5050.2	4784.7	4484.3
22.5°	4494.1	4489.9	4506.6	4549.7	4640.0	4779.1	5203.0	5632.6	5347.5	5034.8	4669.3
25°	4854.2	4869.4	4840.1	4791.6	4820.7	4918.1	5247.5	5885.6	5720.2	5356.0	4911.1
27.5°	5367.1	5351.7	5308.7	5194.7	5134.9	5176.6	5394.9	6158.1	6183.1	5778.5	5230.8
30°	5878.5	5866.1	5824.4	5685.5	5563.1	5528.3	5681.3	6470.8	6734.8	6285.9	5622.8
32.5°	6409.5	6395.7	6356.8	6217.8	6070.5	5989.8	6088.5	6832.2	7385.5	6892.0	6084.3
35°	7064.3	7037.9	6955.9	6762.7	6618.2	6555.5	6601.5	7286.7	8136.1	7609.3	6644.5
37.5°	7680.2	7720.5	7637.0	7370.2	7182.4	7160.3	7211.6	7841.4	8945.2	8411.4	7288.1
40°	8298.7	8305.7	8230.6	8012.4	7819.1	7783.0	7912.3	8514.2	9900.1	9370.5	8070.8
42.5°	8938.2	8952.0	8825.5	8624.1	8482.3	8489.1	8636.5	9302.4	10995.6	10500.6	8971.5
45°	9695.7	9716.7	9577.5	9313.5	9184.3	9444.2	9382.9	10186.5	12196.5	11785.0	10005.8
47.5°	10488.2	10520.0	10414.4	10167.0	10005.8	10363.0	10129.4	11166.4	13489.2	13162.6	11141.3
50°	10920.4	10966.3	11069.2	11051.0	11016.3	10956.5	10962.1	12217.4	14822.3	14597.1	12309.0
52.5°	10688.3	10686.8	11062.2	11518.1	12004.7	12040.8	11976.9	13325.3	16067.8	15999.7	13408.7
55°	9626.3	9698.5	10267.1	11149.8	12478.7	13308.6	13497.6	14594.5	17291.2	17370.4	14524.8
57.5°	7858.0	7917.8	8685.1	9915.4	11839.3	14062.0	15660.5	16439.0	18659.0	19028.7	16010.9
60°	5329.5	5401.8	6215.0	7692.6	10118.3	13642.2	17719.2	19730.7	20296.4	21137.4	18095.9
62.5°	3131.8	3197.2	3860.2	4852.8	7124.1	11692.0	18622.8	24413.9	22897.3	24319.4	21276.5
65°	2156.0	2200.5	2523.1	3020.6	4093.7	7874.8	17502.4	27647.2	26899.3	28261.5	24964.3
67.5°	1734.8	1729.2	1985.0	2324.2	2635.6	4060.4	13234.9	27281.6	30419.0	30987.4	26878.5
70°	1429.0	1423.4	1597.2	1877.9	2106.0	2286.7	7208.9	23022.3	29701.7	29932.4	25115.9
72.5°	1195.6	1201.0	1312.2	1520.8	1727.8	1722.3	3168.0	16195.7	23365.7	24961.5	20021.2
75°	1009.2	1012.0	1085.6	1233.0	1402.6	1387.3	1718.1	8774.2	13582.3	14693.0	11098.3
77.5°	859.1	861.8	909.1	991.1	1112.0	1106.5	1253.9	3790.7	5665.9	5596.5	3796.3
80°	765.9	765.9	788.2	803.5	870.1	845.1	929.9	1821.1	2395.1	2211.6	1515.2
82.5°	600.5	603.3	739.4	734.0	685.3	653.4	653.4	1073.2	1269.1	1173.2	886.8
85°	337.8	336.4	476.8	575.5	603.3	460.1	455.9	600.5	690.8	608.9	429.5
87.5°	144.5	147.4	221.0	255.7	342.0	286.4	282.2	310.0	351.7	304.4	198.8
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°	3922.7	3922.7	3922.7	3922.7	3922.7	3922.7	3922.7	3922.7	3922.7	3922.7	3922.7
2.5°	3924.1	3888.0	3808.8	3710.1	3621.2	3562.7	3510.0	3433.5	3437.7	3384.9	3345.9
5°	3921.5	3846.4	3662.8	3444.6	3234.7	3083.2	2969.2	2866.3	2841.3	2792.6	2763.5
7.5°	3924.1	3801.9	3493.2	3144.4	2884.5	2692.5	2595.2	2541.1	2528.6	2511.9	2513.3
10°	3933.9	3761.6	3307.0	2863.5	2591.1	2464.6	2441.0	2457.7	2477.1	2482.7	2484.0
12.5°	3956.2	3725.4	3102.6	2613.4	2407.6	2368.6	2408.9	2466.0	2503.5	2521.6	2520.2
15°	4006.2	3697.6	2906.7	2417.4	2306.1	2327.0	2402.1	2482.7	2536.9	2561.9	2563.3
17.5°	4060.4	3657.2	2705.0	2267.2	2231.1	2283.8	2377.1	2471.6	2538.3	2566.1	2571.6
20°	4131.3	3607.2	2493.9	2154.6	2160.2	2219.9	2307.5	2402.1	2475.7	2499.3	2510.4
22.5°	4224.4	3553.0	2308.8	2062.9	2079.5	2125.4	2193.5	2275.6	2339.5	2350.6	2360.3
25°	4349.5	3494.6	2161.5	1979.4	1986.5	2012.8	2058.7	2107.4	2151.9	2139.3	2149.0
27.5°	4517.8	3444.6	2051.8	1903.0	1890.5	1896.0	1919.6	1935.0	1958.6	1923.8	1928.0
30°	4715.1	3390.5	1967.0	1836.3	1801.5	1791.9	1797.4	1805.7	1823.7	1776.5	1769.6
32.5°	4944.5	3325.1	1887.7	1777.8	1729.2	1709.8	1712.5	1734.8	1804.3	1775.1	1759.8
35°	5211.3	3251.3	1804.3	1714.0	1680.6	1652.8	1650.1	1719.5	1926.7	1908.5	1894.7
37.5°	5524.1	3177.7	1721.0	1641.7	1644.5	1613.9	1604.2	1683.3	1950.3	1879.4	1869.7
40°	5921.8	3138.8	1650.1	1565.2	1600.0	1595.8	1576.4	1616.6	1794.6	1665.3	1648.6
42.5°	6413.8	3144.4	1597.2	1483.2	1547.1	1591.6	1561.1	1562.4	1626.5	1529.1	1513.8
45°	7021.2	3209.7	1559.6	1417.8	1487.3	1587.4	1555.6	1533.2	1538.8	1487.3	1479.1
47.5°	7730.2	3344.5	1533.2	1363.7	1430.4	1572.1	1554.1	1524.9	1512.3	1484.7	1477.6
50°	8518.4	3540.5	1513.8	1312.2	1379.0	1547.1	1555.6	1516.5	1502.7	1491.5	1487.3
52.5°	9292.6	3764.3	1484.7	1267.7	1338.7	1516.5	1559.6	1508.3	1492.9	1484.7	1480.5
55°	10155.8	4043.6	1440.1	1230.3	1305.3	1477.6	1559.6	1495.8	1479.1	1480.5	1479.1
57.5°	11322.1	4495.5	1387.3	1198.2	1265.0	1430.4	1533.2	1481.8	1461.1	1462.3	1463.7
60°	13144.6	5292.0	1323.3	1166.3	1215.0	1374.8	1497.1	1451.2	1430.4	1436.0	1437.3
62.5°	15824.6	6461.0	1240.0	1119.1	1162.1	1315.1	1447.0	1412.2	1391.4	1405.4	1405.4
65°	18610.2	7492.5	1137.1	1059.3	1106.5	1249.7	1384.6	1363.7	1342.8	1374.8	1373.4
67.5°	19359.5	7261.7	1034.2	993.9	1050.8	1177.4	1309.5	1298.3	1287.2	1342.8	1340.1
70°	17198.0	5830.0	939.7	927.2	989.8	1099.5	1228.8	1228.8	1221.8	1263.6	1253.9
72.5°	13102.8	4134.1	849.4	856.3	920.2	1014.8	1141.2	1150.9	1139.9	1160.7	1152.3
75°	7014.3	2365.9	759.1	778.5	834.0	928.6	1044.0	1053.7	1046.7	1045.3	1049.6
77.5°	2331.1	1156.5	664.4	695.0	743.7	839.6	942.5	957.7	941.0	938.3	936.9
80°	1038.4	727.0	560.2	600.5	643.6	738.1	835.4	848.0	829.9	854.9	822.9
82.5°	667.2	478.2	448.9	493.6	535.2	636.7	728.4	731.2	714.4	829.9	707.6
85°	323.9	296.1	337.8	378.1	414.2	500.4	603.3	604.6	563.0	513.0	494.8
87.5°	161.2	172.4	225.2	261.3	279.3	343.4	439.2	430.9	412.9	375.3	346.2
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)