

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: P317608

Luminaire Tested: **GAN-SA4C-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23621 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

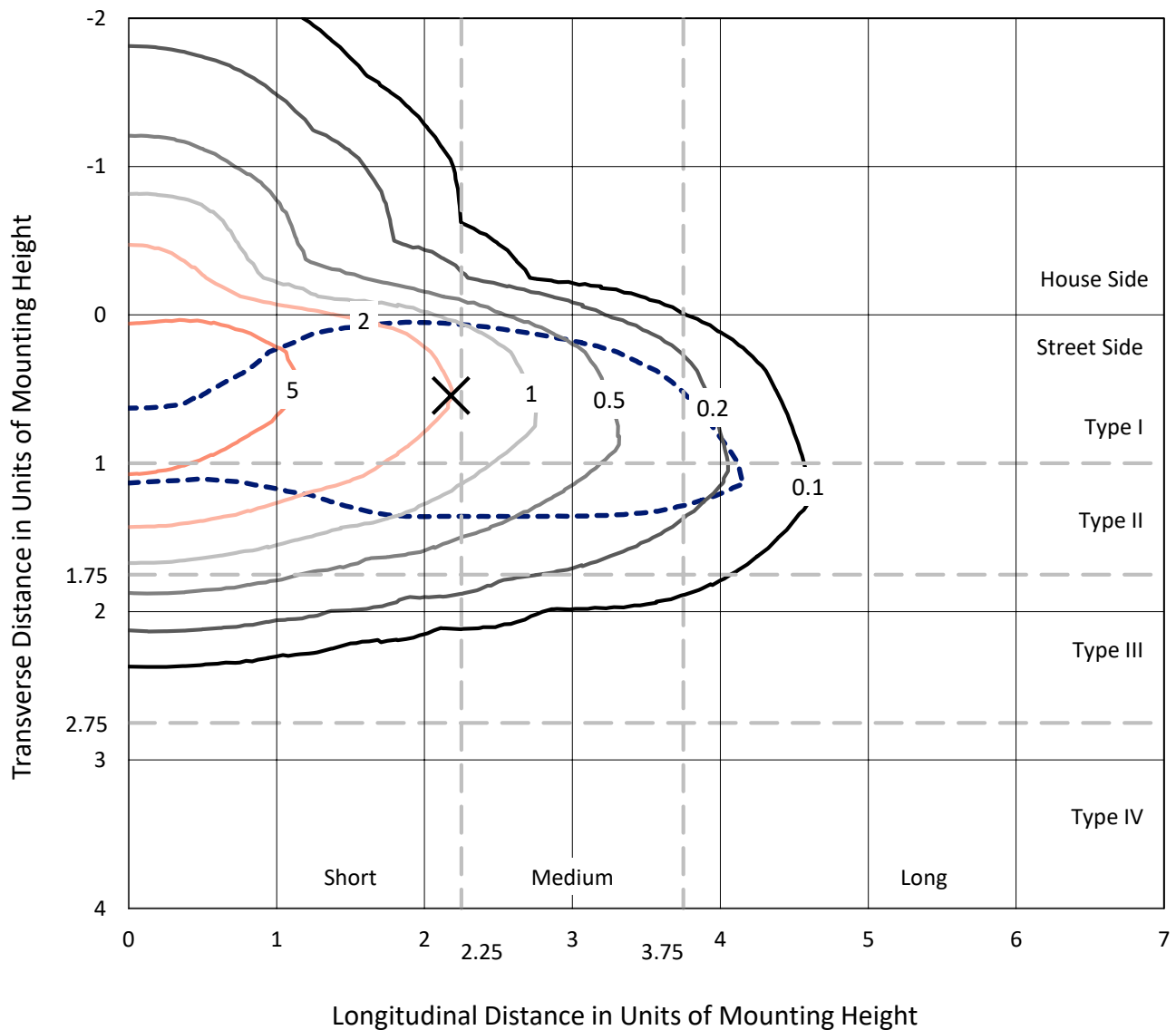
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

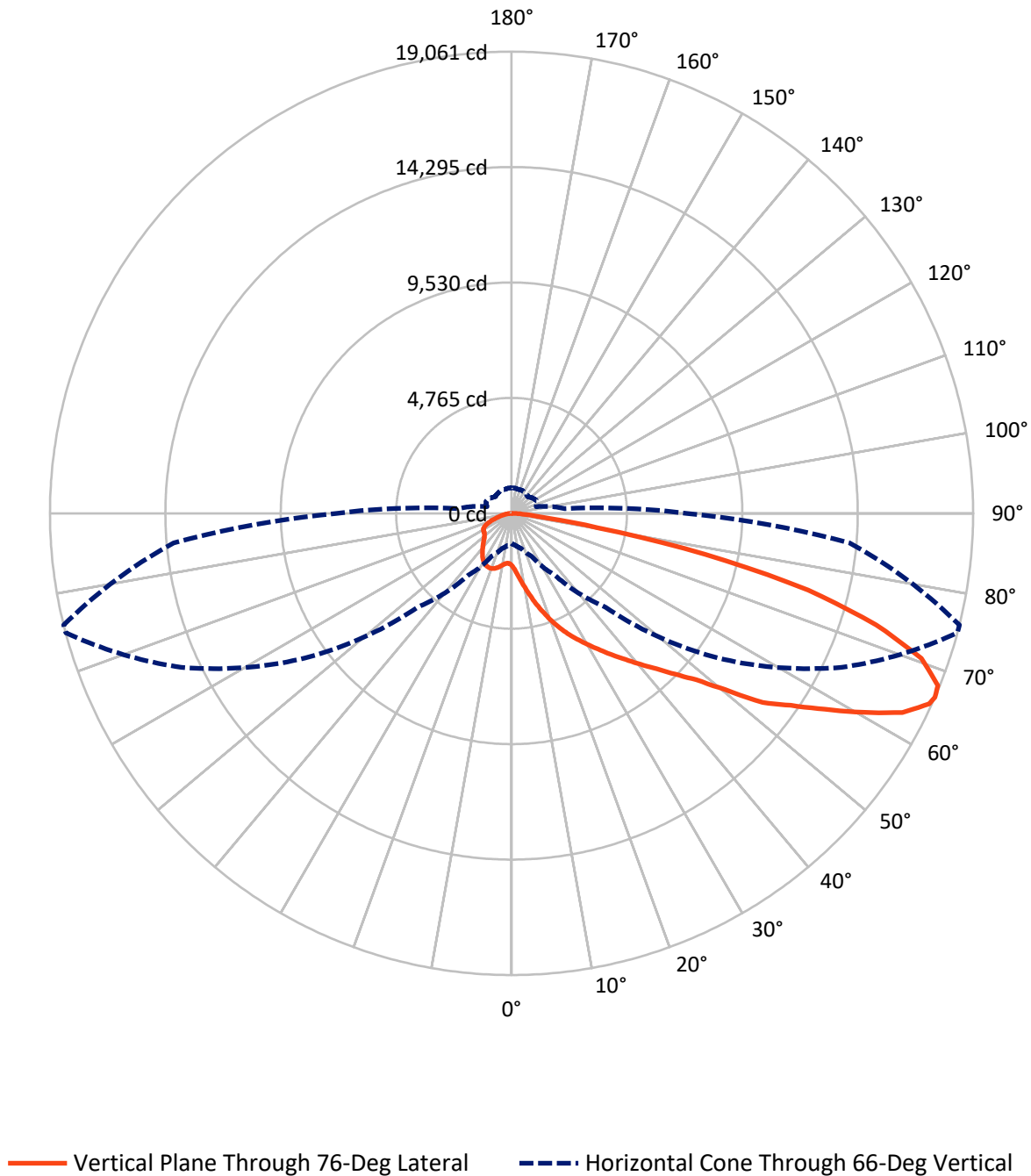
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3974.6	0.0	3974.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	19646.4	0.0	19646.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	23621.0	0.0	23621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.9	1.1
10°-20°	1030.1	4.4
20°-30°	2001.7	8.5
30°-40°	3267.3	13.8
40°-50°	4463.9	18.9
50°-60°	5199.5	22.0
60°-70°	4661.5	19.7
70°-80°	2355.7	10.0
80°-90°	380.4	1.6
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°	23621.0	100.0
0°-180°	23621.0	100.0

Coefficient of Utilization



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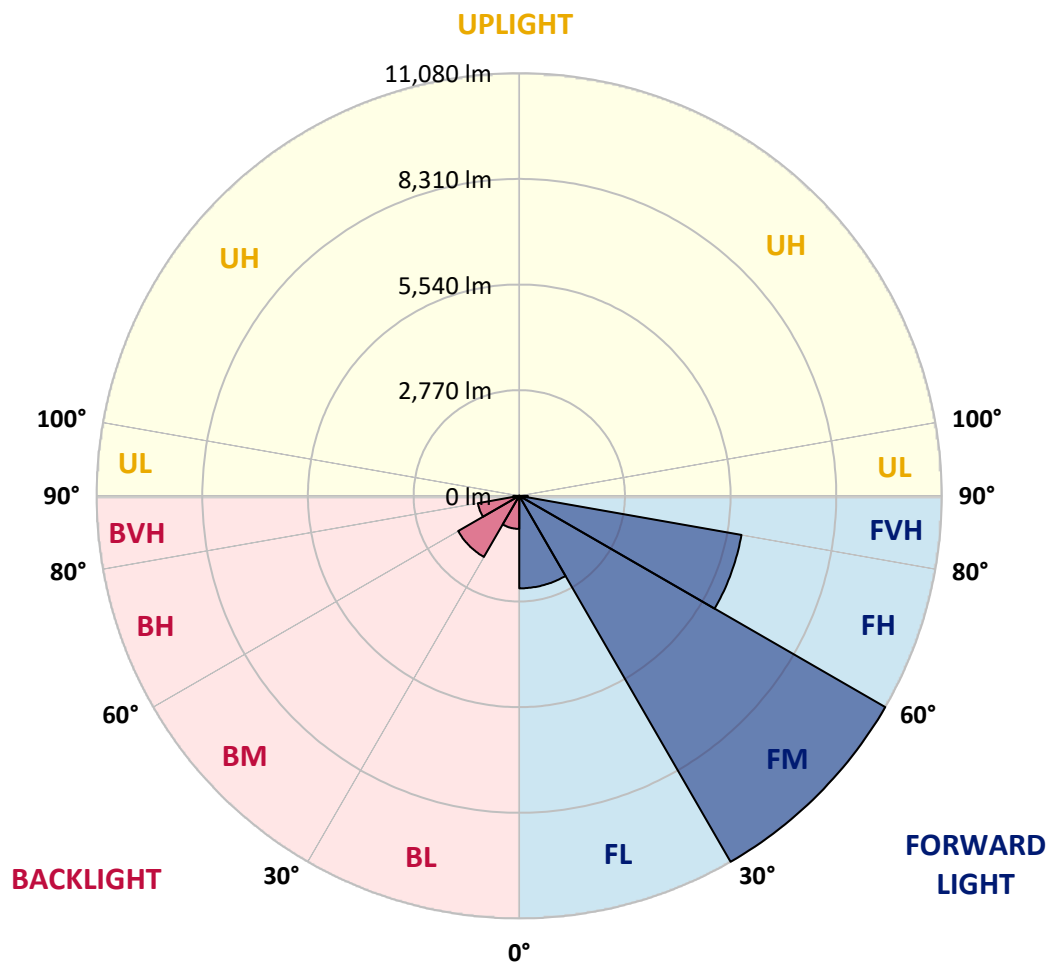
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2425.8	10.3			
FM	(30°-60°)	11079.9	46.9			
FH	(60°-80°)	5916.0	25.0			G3/7500
FVH	(80°-90°)	224.7	1.0			G2/225
BL	(0°-30°)	866.9	3.7	B2/1000		
BM	(30°-60°)	1850.8	7.8	B2/2500		
BH	(60°-80°)	1101.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	155.8	0.7			G2/225
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°	65°	75°	76°	85°
0°	2157.1	2157.1	2157.1	2157.1	2157.1	2157.1	2157.1	2157.1	2157.1	2157.1	2157.1
2.5°	2863.6	2820.3	2816.3	2752.9	2738.5	2617.4	2528.4	2435.4	2329.5	2308.7	2225.3
5°	3678.3	3674.3	3619.0	3515.6	3434.6	3227.7	3023.2	2806.7	2569.3	2530.8	2343.2
7.5°	4411.3	4404.9	4362.4	4250.9	4133.8	3879.6	3587.7	3255.7	2870.8	2813.9	2502.8
10°	4967.8	4965.4	4951.0	4869.2	4769.7	4526.0	4203.6	3750.5	3221.3	3143.5	2702.4
12.5°	5397.6	5402.4	5412.1	5383.2	5335.9	5128.2	4797.8	4275.0	3594.9	3518.0	2924.6
15°	5688.7	5703.2	5752.9	5793.8	5818.6	5691.1	5371.2	4811.4	4013.5	3921.3	3170.7
17.5°	5835.5	5851.5	5937.3	6060.8	6174.7	6161.9	5907.6	5323.1	4415.3	4326.3	3435.4
20°	5962.2	5974.2	6070.4	6218.8	6420.1	6509.1	6366.3	5815.4	4855.5	4749.7	3716.0
22.5°	6329.5	6344.7	6373.6	6457.8	6635.8	6799.4	6730.4	6281.3	5258.9	5160.3	3982.3
25°	7038.3	7056.8	6994.2	6922.9	6956.5	7070.4	7083.2	6706.3	5667.9	5556.4	4268.6
27.5°	7892.4	7918.8	7812.2	7628.5	7468.2	7424.1	7408.8	7054.4	6058.4	5929.3	4551.6
30°	8728.8	8774.5	8635.7	8397.6	8103.3	7896.4	7743.2	7395.2	6443.3	6319.8	4818.7
32.5°	9545.9	9527.5	9326.2	9093.6	8748.8	8489.8	8119.3	7760.9	6876.4	6734.4	5084.1
35°	10105.6	10112.0	9925.2	9649.3	9320.6	9121.7	8622.9	8155.4	7318.2	7187.5	5385.6
37.5°	10582.0	10552.3	10340.6	10083.2	9800.1	9715.1	9212.3	8590.0	7796.9	7654.2	5706.4
40°	10740.7	10706.3	10567.5	10382.3	10155.4	10148.1	9862.7	9082.4	8338.2	8197.1	6068.0
42.5°	10644.5	10600.4	10543.5	10493.0	10423.2	10455.3	10473.7	9659.8	8933.2	8775.3	6486.6
45°	10289.3	10222.7	10262.8	10372.7	10524.2	10705.5	11025.4	10298.9	9599.6	9467.3	6978.2
47.5°	9743.2	9683.0	9808.1	10043.1	10455.3	10914.0	11547.5	11004.6	10395.1	10263.6	7678.3
50°	8974.9	8992.6	9171.4	9598.8	10221.9	11010.2	12190.6	11938.8	11551.5	11428.8	8633.3
52.5°	7714.3	7717.6	8221.2	8922.8	9808.1	10960.5	12547.4	13132.8	13130.4	12982.1	9542.7
55°	6543.6	6614.9	7013.5	7946.1	9137.7	10761.6	12796.8	13713.4	14167.3	13993.3	10390.3
57.5°	5400.0	5441.7	5819.4	6756.1	8181.1	10231.5	13052.6	14410.3	15362.1	15252.3	11444.0
60°	4099.3	4163.5	4554.0	5419.3	6957.3	9290.9	13076.7	15137.6	16790.3	16679.7	12620.4
62.5°	2660.7	2771.4	3137.1	3947.8	5477.0	7938.1	12518.6	15613.1	18143.9	18104.7	13664.5
65°	1529.2	1612.6	1866.8	2492.3	3778.6	6239.6	11191.4	15430.3	18977.1	18954.7	14055.0
66°	1249.4	1301.5	1496.4	1947.8	3117.8	5479.4	10420.0	15044.6	19059.7	19060.5	14010.1
67.5°	999.2	1022.4	1109.8	1394.5	2300.7	4343.1	9041.5	14193.8	18957.1	18985.2	13720.6
70°	826.8	838.8	866.1	935.0	1255.8	2619.0	6417.7	11982.9	17926.6	17948.3	12590.7
72.5°	741.8	749.0	759.4	769.0	886.1	1463.5	3919.7	9586.0	15717.4	15745.4	10869.0
75°	672.0	676.0	674.4	675.2	743.4	932.6	2025.6	7157.0	12708.6	12652.5	8326.2
77.5°	590.2	594.2	586.2	587.8	657.6	716.9	1008.0	5010.3	8576.4	8180.3	4691.2
80°	498.8	502.0	498.8	504.4	572.6	541.3	586.2	2818.7	3792.2	3586.9	1668.0
82.5°	376.9	390.5	400.2	422.6	471.5	384.9	392.1	1097.8	1154.7	1099.4	511.6
85°	165.2	201.3	301.5	323.2	354.4	230.9	257.4	447.5	469.9	455.5	186.0
87.5°	43.3	47.3	149.2	187.6	196.5	104.2	133.9	203.7	214.9	203.7	61.7
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°	2157.1	2157.1	2157.1	2157.1	2157.1	2157.1	2157.1	2157.1	2157.1	2157.1	2157.1
2.5°	2181.2	2141.9	2071.3	2008.8	1961.5	1929.4	1897.3	1881.3	1871.7	1862.0	1863.6
5°	2251.0	2171.6	2050.5	1964.7	1916.6	1886.1	1870.0	1863.6	1859.6	1850.0	1850.0
7.5°	2356.0	2243.7	2076.9	1988.7	1951.0	1927.8	1918.2	1915.0	1910.1	1898.9	1900.5
10°	2488.3	2331.1	2132.3	2046.5	2012.0	1986.3	1972.7	1967.9	1959.1	1946.2	1947.8
12.5°	2643.9	2439.4	2205.2	2115.4	2073.7	2039.2	2016.8	2003.2	1987.9	1971.1	1971.9
15°	2813.9	2557.3	2283.8	2177.2	2120.2	2072.1	2036.0	2012.8	1988.7	1967.9	1967.1
17.5°	2986.3	2671.2	2344.0	2210.9	2133.9	2070.5	2021.6	1985.5	1955.9	1930.2	1927.8
20°	3172.3	2773.8	2377.7	2207.7	2108.2	2032.8	1967.9	1923.0	1890.1	1864.4	1860.4
22.5°	3361.6	2870.0	2383.3	2174.8	2051.3	1959.1	1890.9	1841.2	1807.5	1781.0	1771.4
25°	3534.8	2944.6	2360.0	2111.4	1971.9	1872.5	1805.9	1755.4	1728.1	1696.8	1687.2
27.5°	3692.8	2996.7	2313.5	2030.4	1882.9	1785.0	1722.5	1679.2	1649.5	1625.5	1617.4
30°	3834.7	3024.8	2237.3	1934.2	1791.5	1702.4	1649.5	1619.9	1594.2	1563.7	1558.1
32.5°	3969.4	3024.8	2139.5	1829.2	1700.8	1629.5	1598.2	1579.8	1550.9	1521.2	1513.2
35°	4104.2	3006.3	2024.0	1719.3	1617.4	1577.4	1575.7	1554.1	1510.0	1469.9	1459.5
37.5°	4246.1	2968.7	1894.1	1616.6	1549.3	1554.1	1567.7	1519.6	1457.1	1400.1	1384.9
40°	4406.5	2916.5	1759.4	1527.6	1492.3	1543.7	1546.1	1469.9	1348.0	1295.9	1282.2
42.5°	4594.9	2864.4	1634.3	1449.0	1447.4	1512.4	1505.2	1362.4	1289.5	1263.0	1255.8
45°	4842.7	2834.7	1515.6	1374.5	1412.2	1461.9	1435.4	1303.1	1272.6	1257.4	1251.0
47.5°	5233.2	2850.0	1406.5	1315.1	1376.9	1411.4	1305.5	1279.0	1257.4	1238.9	1232.5
50°	5722.4	2841.2	1318.3	1274.2	1336.8	1358.4	1247.0	1247.8	1236.5	1215.7	1206.1
52.5°	6090.5	2772.2	1261.4	1251.0	1301.5	1264.6	1210.1	1217.3	1211.7	1181.2	1170.8
55°	6445.7	2712.9	1232.5	1242.2	1275.8	1147.5	1166.8	1184.4	1178.8	1149.1	1144.3
57.5°	6887.6	2701.6	1214.9	1244.6	1254.2	1089.0	1125.1	1148.3	1144.3	1131.5	1129.1
60°	7428.9	2704.8	1198.9	1248.6	1230.1	1045.7	1085.8	1115.5	1117.9	1115.5	1113.8
62.5°	7726.4	2617.4	1158.8	1237.3	1187.6	1008.0	1044.9	1088.2	1089.0	1093.8	1093.0
65°	7473.8	2356.0	1084.2	1198.0	1116.3	976.7	1009.6	1056.9	1044.9	1066.5	1066.5
66°	7228.4	2205.2	1047.3	1172.4	1085.8	964.7	998.4	1040.9	1025.6	1055.3	1055.3
67.5°	6727.2	1951.0	980.7	1117.9	1042.5	947.9	985.5	1014.4	993.6	1037.7	1034.5
70°	5811.4	1509.2	846.8	994.4	971.1	923.0	967.9	961.5	931.0	998.4	985.5
72.5°	4899.7	1146.7	680.0	832.4	862.9	891.7	943.0	894.1	855.6	902.9	874.9
75°	3801.8	862.1	537.3	647.1	728.9	842.8	913.4	816.3	761.0	756.2	741.0
77.5°	2055.3	591.8	425.8	494.0	579.0	781.9	893.3	732.9	649.5	630.3	618.3
80°	813.9	384.9	309.5	374.5	405.0	693.6	845.2	635.9	535.7	516.4	498.0
82.5°	336.0	227.7	199.7	251.0	263.8	593.4	758.6	521.2	413.8	572.6	607.8
85°	144.3	125.1	118.7	129.9	149.2	416.2	603.8	397.7	446.7	398.5	316.8
87.5°	43.3	52.9	50.5	49.7	54.5	99.4	321.6	221.3	328.0	124.3	93.0
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)