

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: P317509

Luminaire Tested: **GAN-SA5A-760-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317509
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-SA5A-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24265 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

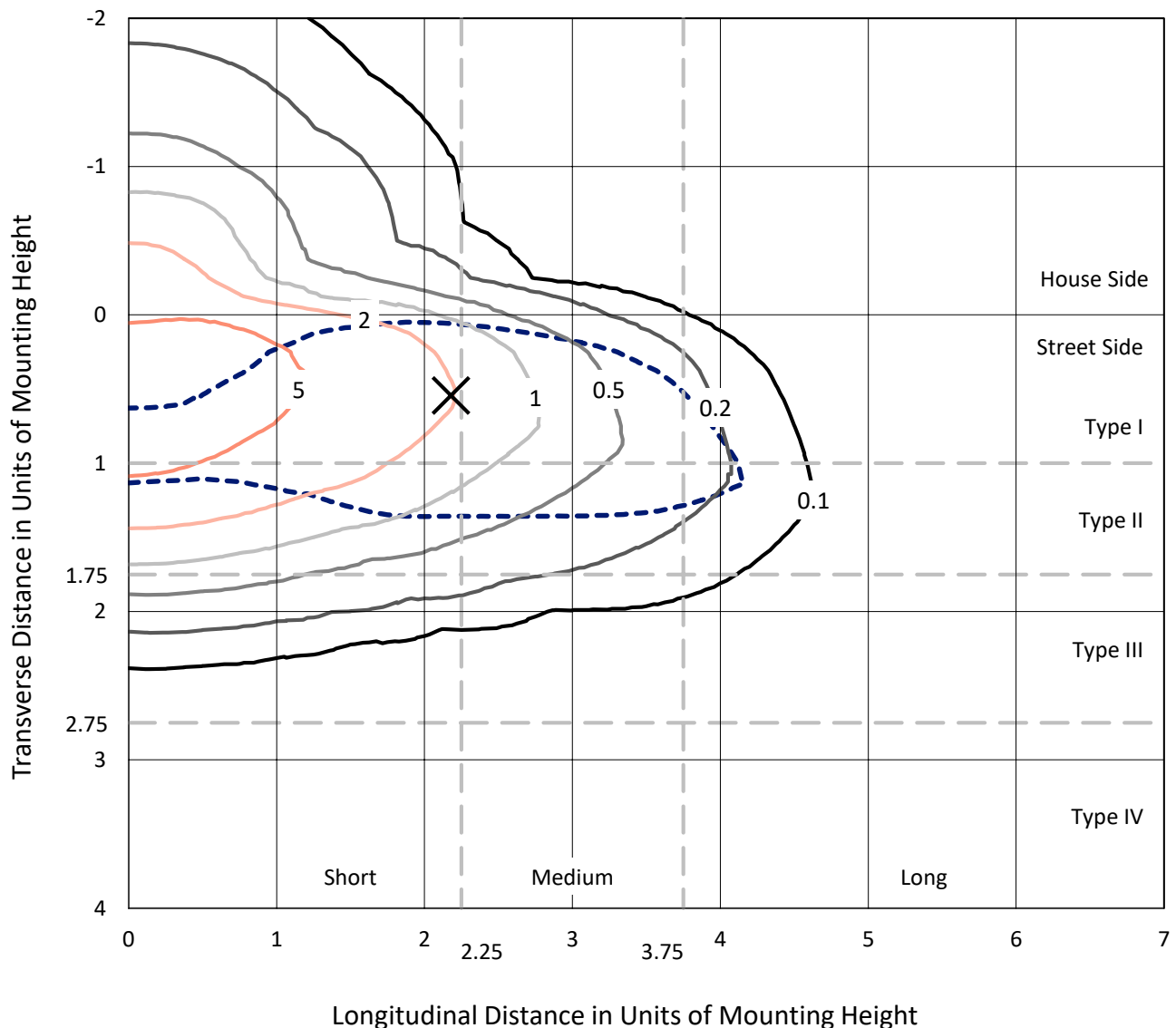
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

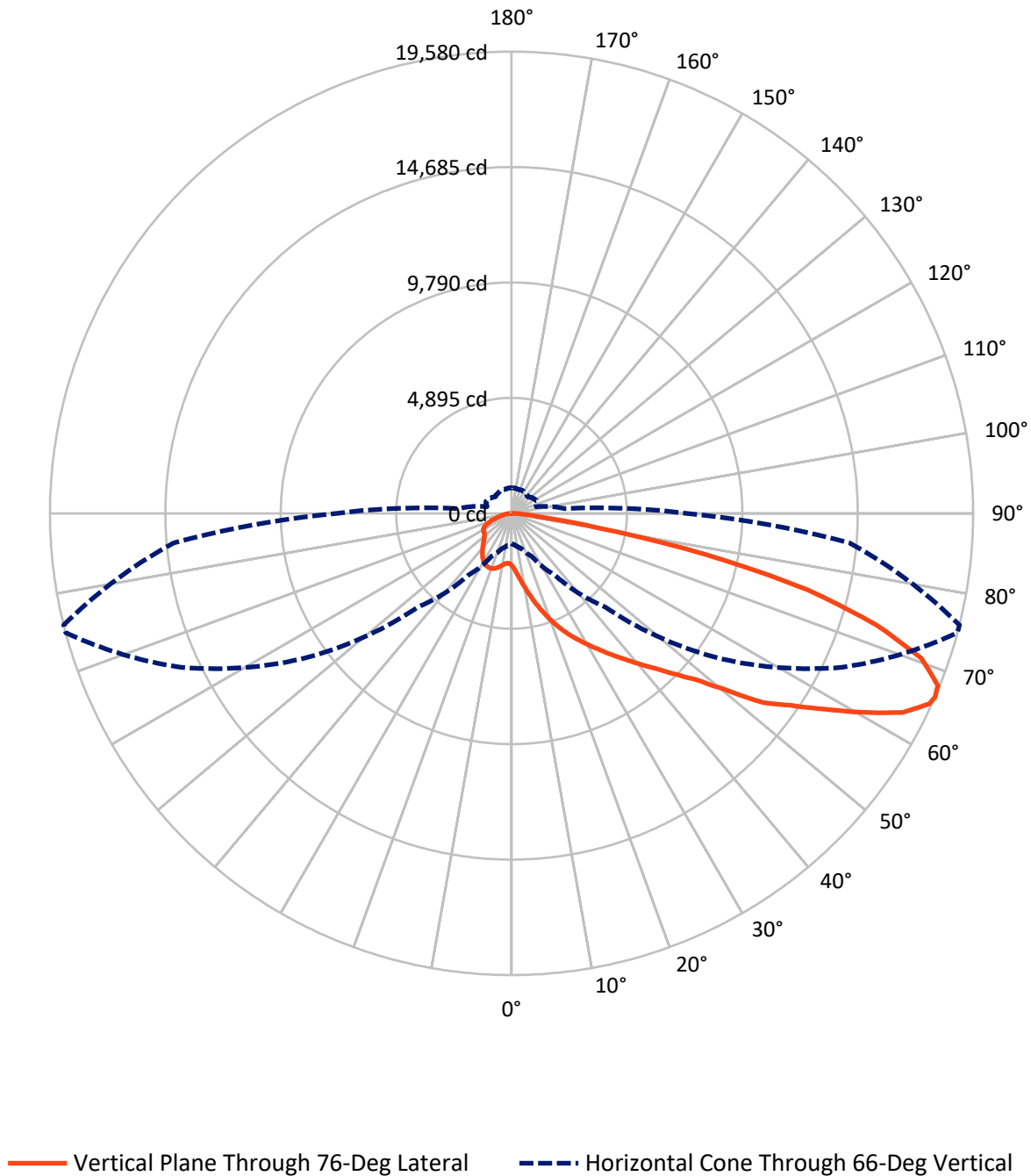
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	4083.0	0.0	4083.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	20182.0	0.0	20182.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	24265.0	0.0	24265.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	1.1
10°-20°	1058.2	4.4
20°-30°	2056.3	8.5
30°-40°	3356.4	13.8
40°-50°	4585.6	18.9
50°-60°	5341.3	22.0
60°-70°	4788.6	19.7
70°-80°	2419.9	10.0
80°-90°	390.8	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°	24265.0	100.0
0°-180°	24265.0	100.0

Coefficient of Utilization



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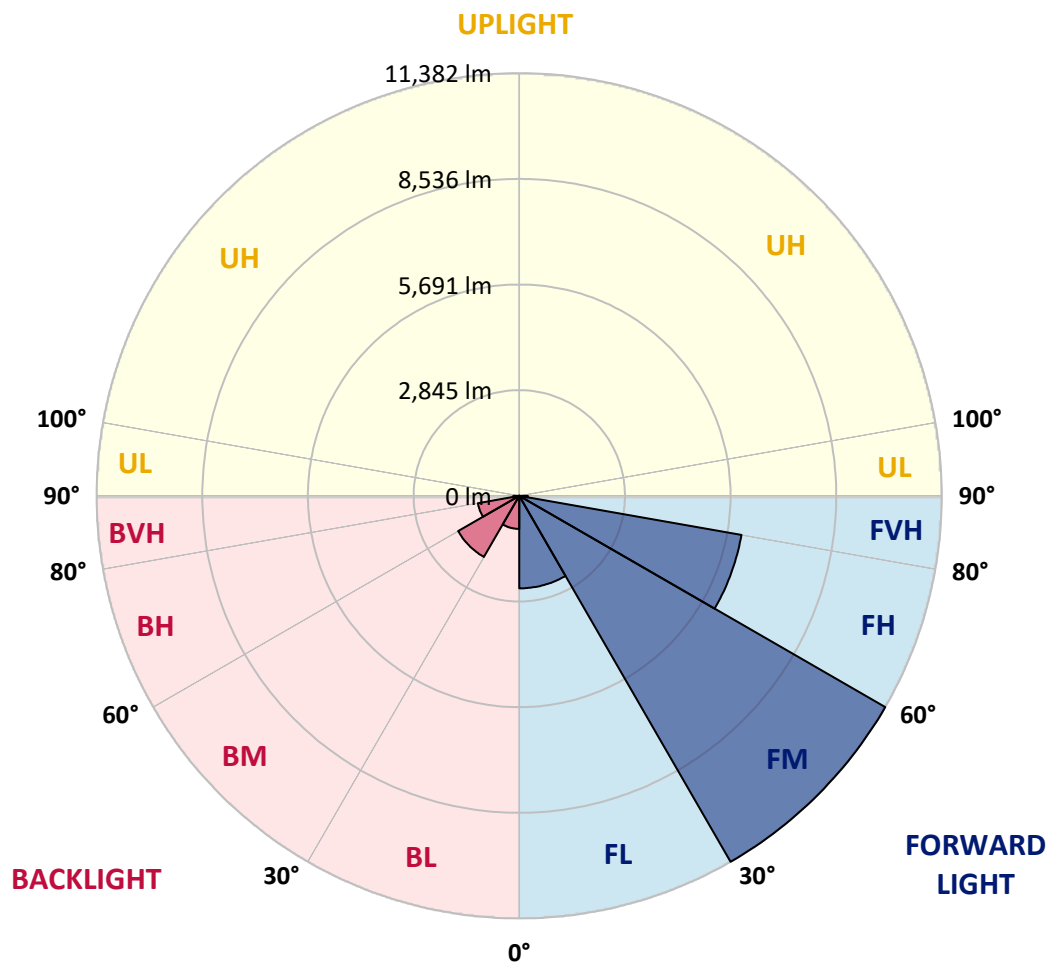
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2491.9	10.3			
FM	(30°-60°)	11382.0	46.9			
FH	(60°-80°)	6077.3	25.0			G3/7500
FVH	(80°-90°)	230.8	1.0			G3/500
BL	(0°-30°)	890.5	3.7	B2/1000		
BM	(30°-60°)	1901.3	7.8	B2/2500		
BH	(60°-80°)	1131.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	160.0	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°	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9
2.5°	2941.7	2897.2	2893.1	2828.0	2813.2	2688.8	2597.3	2501.8	2393.1	2371.6	2286.0
5°	3778.6	3774.5	3717.7	3611.4	3528.2	3315.7	3105.6	2883.2	2639.4	2599.8	2407.1
7.5°	4531.6	4525.0	4481.3	4366.8	4246.5	3985.4	3685.5	3344.5	2949.1	2890.6	2571.0
10°	5103.3	5100.8	5086.0	5001.9	4899.8	4649.4	4318.2	3852.8	3309.1	3229.2	2776.1
12.5°	5544.8	5549.7	5559.6	5530.0	5481.4	5268.0	4928.6	4391.5	3693.0	3613.9	3004.3
15°	5843.8	5858.7	5909.7	5951.7	5977.3	5846.3	5517.6	4942.6	4123.0	4028.2	3257.2
17.5°	5994.6	6011.1	6099.2	6226.1	6343.0	6329.9	6068.7	5468.2	4535.7	4444.2	3529.0
20°	6124.7	6137.1	6235.9	6388.3	6595.1	6686.5	6539.9	5974.0	4987.9	4879.2	3817.4
22.5°	6502.0	6517.7	6547.3	6633.8	6816.7	6984.7	6913.9	6452.6	5402.3	5301.0	4090.8
25°	7230.2	7249.2	7184.9	7111.6	7146.2	7263.2	7276.4	6889.2	5822.4	5707.9	4384.9
27.5°	8107.5	8134.7	8025.2	7836.5	7671.8	7626.5	7610.8	7246.7	6223.6	6091.0	4675.7
30°	8966.7	9013.7	8871.2	8626.5	8324.2	8111.7	7954.3	7596.8	6619.0	6492.1	4950.0
32.5°	9806.2	9787.2	9580.4	9341.6	8987.3	8721.3	8340.7	7972.4	7063.8	6918.0	5222.7
35°	10381.2	10387.7	10195.8	9912.4	9574.7	9370.4	8858.0	8377.7	7517.7	7383.5	5532.4
37.5°	10870.5	10840.0	10622.5	10358.1	10067.3	9980.0	9463.5	8824.2	8009.5	7862.9	5861.9
40°	11033.6	10998.2	10855.6	10665.4	10432.2	10424.8	10131.5	9330.0	8565.6	8420.6	6233.5
42.5°	10934.7	10889.4	10830.9	10779.0	10707.4	10740.3	10759.3	9923.1	9176.8	9014.5	6663.5
45°	10569.8	10501.4	10542.6	10655.5	10811.2	10997.3	11326.0	10579.7	9861.4	9725.4	7168.4
47.5°	10008.8	9947.0	10075.5	10316.9	10740.3	11211.5	11862.3	11304.6	10678.5	10543.4	7887.6
50°	9219.6	9237.8	9421.5	9860.5	10500.6	11310.4	12523.0	12264.3	11866.4	11740.4	8868.7
52.5°	7924.7	7928.0	8445.3	9166.1	10075.5	11259.3	12889.5	13490.9	13488.4	13336.0	9802.9
55°	6722.0	6795.3	7204.7	8162.7	9386.9	11055.0	13145.7	14087.3	14553.5	14374.8	10673.6
57.5°	5547.3	5590.1	5978.1	6940.3	8404.1	10510.5	13408.5	14803.2	15781.0	15668.1	11756.0
60°	4211.1	4277.0	4678.2	5567.0	7147.0	9544.2	13433.2	15550.3	17248.1	17134.4	12964.5
62.5°	2733.3	2846.9	3222.6	4055.4	5626.4	8154.5	12859.9	16038.8	18638.6	18598.3	14037.0
65°	1570.9	1656.6	1917.7	2560.3	3881.6	6409.8	11496.5	15851.0	19494.5	19471.5	14438.2
66°	1283.4	1337.0	1537.2	2000.9	3202.8	5628.8	10704.1	15454.8	19579.4	19580.2	14392.1
67.5°	1026.4	1050.3	1140.1	1432.5	2363.4	4461.5	9288.0	14580.7	19473.9	19502.8	14094.7
70°	849.3	861.7	889.7	960.5	1290.0	2690.4	6592.6	12309.6	18415.4	18437.6	12934.0
72.5°	762.0	769.4	780.1	790.0	910.3	1503.4	4026.6	9847.3	16145.9	16174.7	11165.4
75°	690.3	694.4	692.8	693.6	763.6	958.0	2080.8	7352.1	13055.1	12997.4	8553.2
77.5°	606.3	610.4	602.2	603.8	675.5	736.5	1035.5	5146.9	8810.2	8403.3	4819.1
80°	512.4	515.7	512.4	518.2	588.2	556.0	602.2	2895.6	3895.6	3684.7	1713.4
82.5°	387.2	401.2	411.1	434.1	484.4	395.4	402.8	1127.7	1186.2	1129.4	525.6
85°	169.7	206.8	309.7	332.0	364.1	237.2	264.4	459.7	482.7	467.9	191.1
87.5°	44.5	48.6	153.2	192.8	201.8	107.1	137.6	209.2	220.8	209.2	63.4
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°	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9	2215.9
2.5°	2240.7	2200.3	2127.8	2063.5	2014.9	1982.0	1949.0	1932.6	1922.7	1912.8	1914.4
5°	2312.3	2230.8	2106.4	2018.2	1968.8	1937.5	1921.0	1914.4	1910.3	1900.4	1900.4
7.5°	2420.2	2304.9	2133.6	2043.0	2004.2	1980.3	1970.5	1967.2	1962.2	1950.7	1952.3
10°	2556.2	2394.7	2190.4	2102.3	2066.8	2040.5	2026.5	2021.5	2012.5	1999.3	2000.9
12.5°	2716.0	2505.9	2265.4	2173.1	2130.3	2094.8	2071.8	2057.8	2042.1	2024.8	2025.7
15°	2890.6	2627.0	2346.1	2236.5	2178.0	2128.6	2091.6	2067.7	2043.0	2021.5	2020.7
17.5°	3067.7	2744.0	2407.9	2271.1	2192.1	2127.0	2076.7	2039.7	2009.2	1982.8	1980.3
20°	3258.8	2849.4	2442.5	2267.8	2165.7	2088.3	2021.5	1975.4	1941.6	1915.3	1911.1
22.5°	3453.2	2948.3	2448.2	2234.1	2107.2	2012.5	1942.5	1891.4	1856.8	1829.6	1819.7
25°	3631.2	3024.9	2424.4	2169.0	2025.7	1923.5	1855.1	1803.2	1775.2	1743.1	1733.2
27.5°	3793.5	3078.4	2376.6	2085.8	1934.2	1833.7	1769.5	1725.0	1694.5	1669.8	1661.5
30°	3939.3	3107.3	2298.3	1986.9	1840.3	1748.9	1694.5	1664.0	1637.7	1606.4	1600.6
32.5°	4077.7	3107.3	2197.8	1879.0	1747.2	1673.9	1641.8	1622.8	1593.2	1562.7	1554.5
35°	4216.1	3088.3	2079.2	1766.2	1661.5	1620.4	1618.7	1596.5	1551.2	1510.0	1499.3
37.5°	4361.9	3049.6	1945.7	1660.7	1591.5	1596.5	1610.5	1561.0	1496.8	1438.3	1422.7
40°	4526.6	2996.1	1807.4	1569.3	1533.0	1585.8	1588.2	1510.0	1384.8	1331.2	1317.2
42.5°	4720.2	2942.5	1678.8	1488.6	1486.9	1553.6	1546.2	1399.6	1324.6	1297.4	1290.0
45°	4974.7	2912.0	1556.9	1411.9	1450.7	1501.7	1474.5	1338.6	1307.3	1291.7	1285.1
47.5°	5375.9	2927.7	1444.9	1351.0	1414.4	1449.8	1341.1	1313.9	1291.7	1272.7	1266.1
50°	5878.4	2918.6	1354.3	1309.0	1373.2	1395.5	1281.0	1281.8	1270.3	1248.8	1239.0
52.5°	6256.5	2847.8	1295.8	1285.1	1337.0	1299.1	1243.1	1250.5	1244.7	1213.4	1202.7
55°	6621.5	2786.8	1266.1	1276.0	1310.6	1178.8	1198.6	1216.7	1210.9	1180.5	1175.5
57.5°	7075.4	2775.3	1248.0	1278.5	1288.4	1118.7	1155.7	1179.6	1175.5	1162.3	1159.9
60°	7631.4	2778.6	1231.5	1282.6	1263.7	1074.2	1115.4	1145.9	1148.3	1145.9	1144.2
62.5°	7937.0	2688.8	1190.3	1271.1	1220.0	1035.5	1073.4	1117.9	1118.7	1123.6	1122.8
65°	7677.5	2420.2	1113.7	1230.7	1146.7	1003.4	1037.1	1085.7	1073.4	1095.6	1095.6
66°	7425.5	2265.4	1075.8	1204.4	1115.4	991.0	1025.6	1069.3	1053.6	1084.1	1084.1
67.5°	6910.6	2004.2	1007.5	1148.3	1070.9	973.7	1012.4	1042.1	1020.7	1066.0	1062.7
70°	5969.9	1550.3	869.9	1021.5	997.6	948.2	994.3	987.7	956.4	1025.6	1012.4
72.5°	5033.2	1178.0	698.6	855.1	886.4	916.0	968.8	918.5	879.0	927.6	898.7
75°	3905.5	885.6	551.9	664.8	748.8	865.8	938.3	838.6	781.8	776.8	761.2
77.5°	2111.3	607.9	437.4	507.4	594.8	803.2	917.7	752.9	667.3	647.5	635.1
80°	836.1	395.4	318.0	384.7	416.0	712.6	868.3	653.2	550.3	530.5	511.6
82.5°	345.2	234.0	205.1	257.8	271.0	609.6	779.3	535.5	425.1	588.2	624.4
85°	148.3	128.5	121.9	133.5	153.2	427.5	620.3	408.6	458.8	409.4	325.4
87.5°	44.5	54.4	51.9	51.1	56.0	102.1	330.3	227.4	336.9	127.7	95.6
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)