

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: P317350

Luminaire Tested: **GAN-SA6A-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317350
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-SA6A-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 24284 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

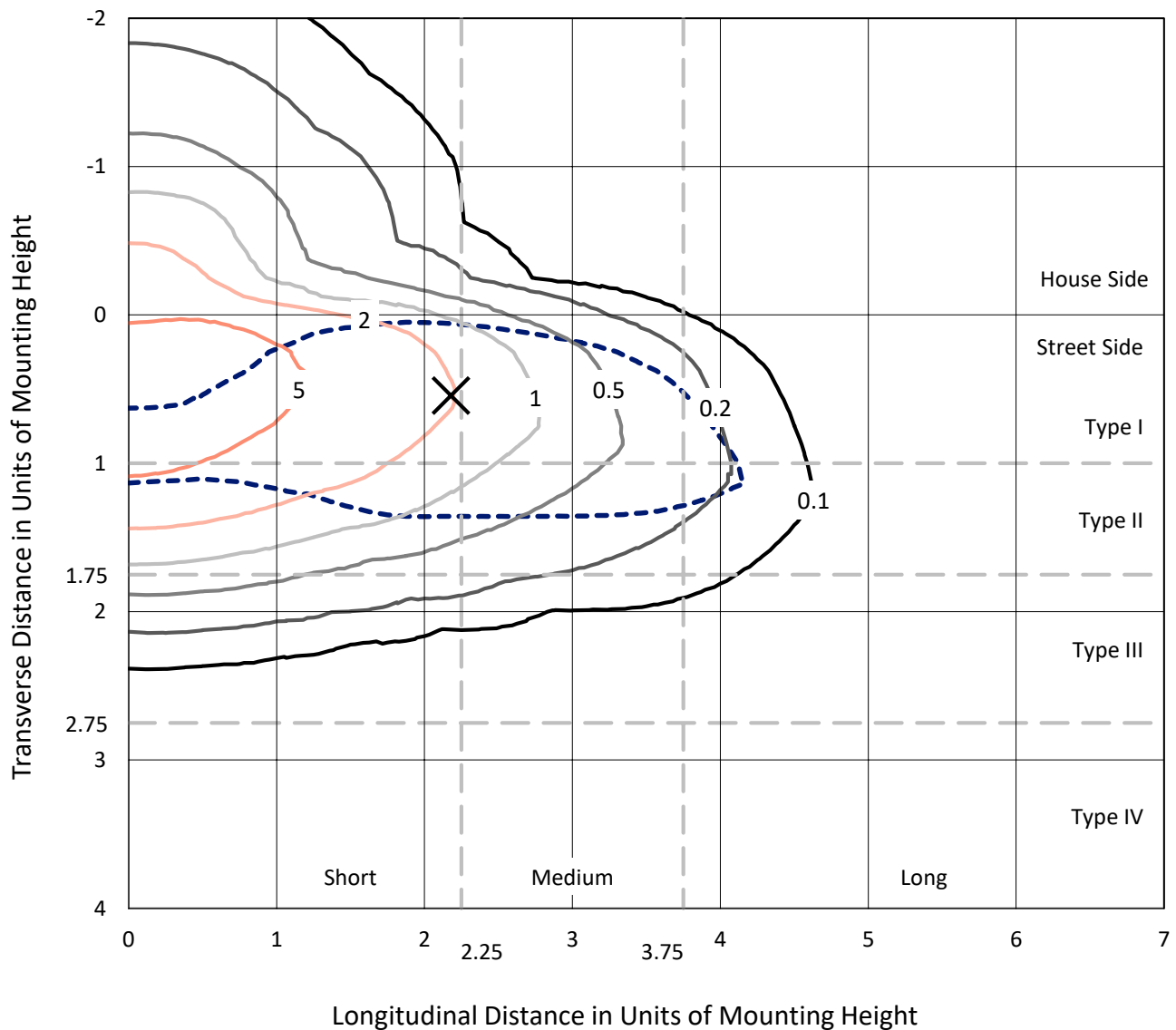
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

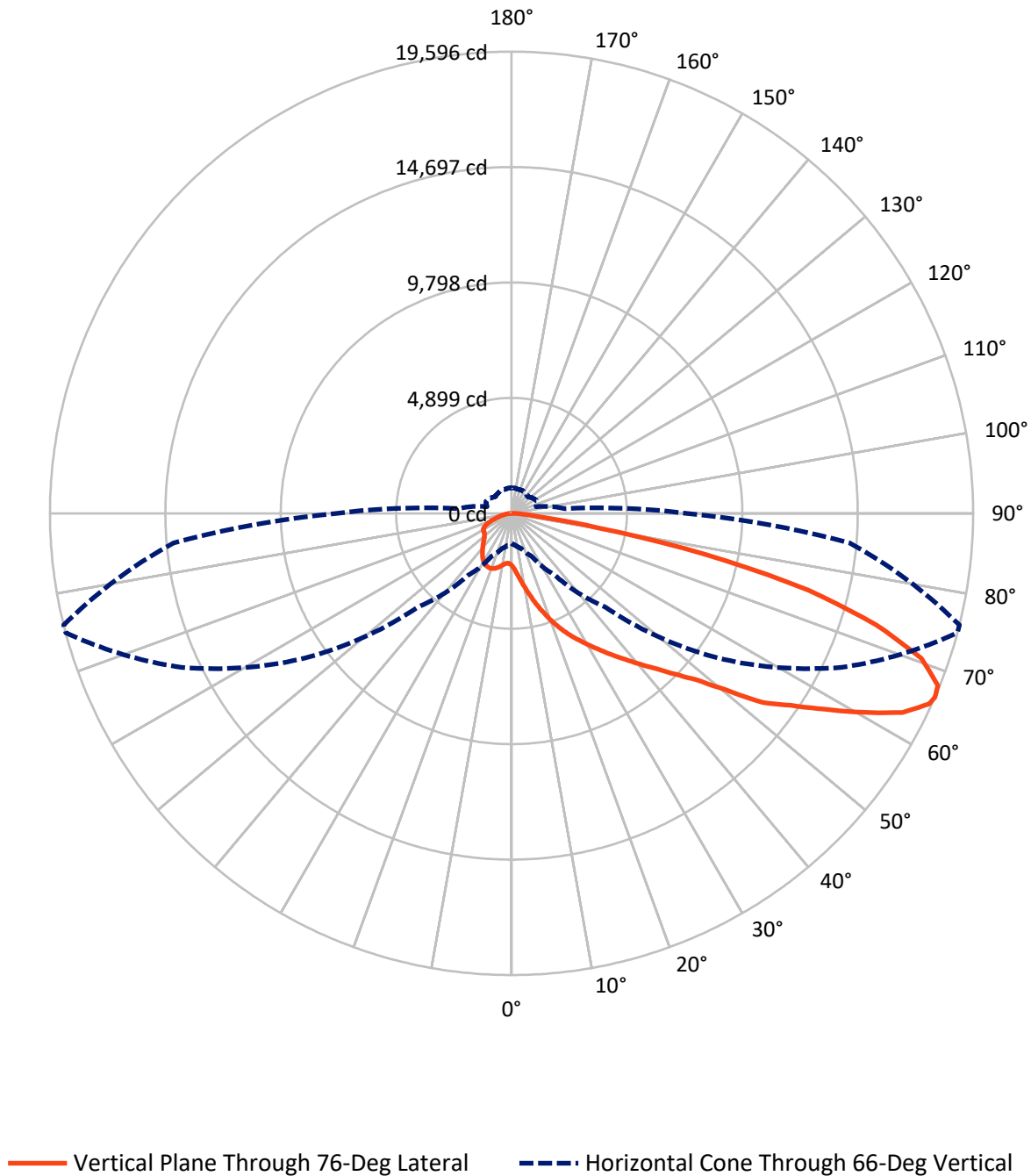
✕ Max cd
 - - - 1/2 Max cd



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	4086.2	0.0	4086.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	20197.8	0.0	20197.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	24284.0	0.0	24284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.2	1.1
10°-20°	1059.0	4.4
20°-30°	2057.9	8.5
30°-40°	3359.0	13.8
40°-50°	4589.2	18.9
50°-60°	5345.5	22.0
60°-70°	4792.3	19.7
70°-80°	2421.8	10.0
80°-90°	391.1	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°	24284.0	100.0
0°-180°	24284.0	100.0

Coefficient of Utilization



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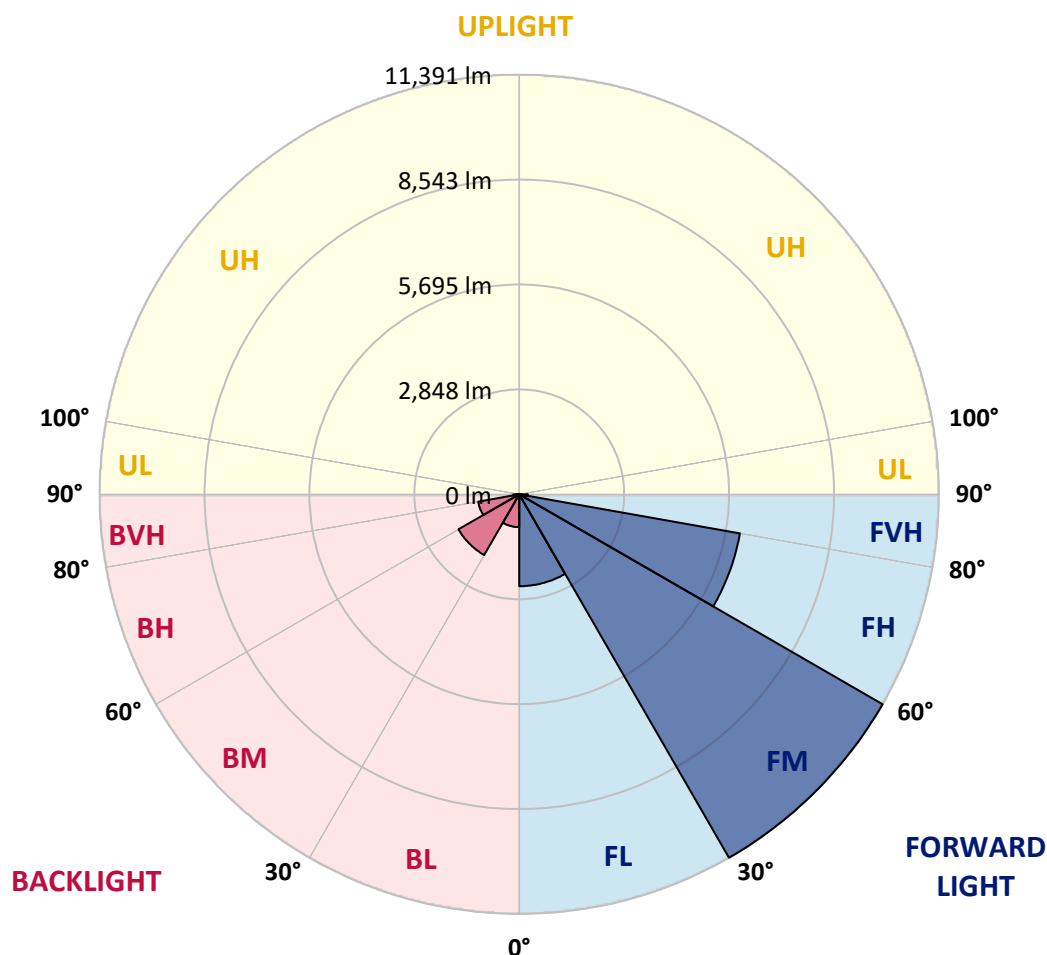
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2493.9	10.3			
FM	(30°-60°)	11390.9	46.9			
FH	(60°-80°)	6082.1	25.0			G3/7500
FVH	(80°-90°)	231.0	1.0			G3/500
BL	(0°-30°)	891.2	3.7	B2/1000		
BM	(30°-60°)	1902.8	7.8	B2/2500		
BH	(60°-80°)	1132.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	160.1	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°	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7
2.5°	2944.0	2899.5	2895.3	2830.2	2815.4	2690.9	2599.4	2503.7	2394.9	2373.5	2287.8
5°	3781.6	3777.5	3720.6	3614.2	3531.0	3318.3	3108.0	2885.5	2641.4	2601.9	2408.9
7.5°	4535.1	4528.5	4484.8	4370.2	4249.9	3988.5	3688.4	3347.1	2951.4	2892.9	2573.0
10°	5107.3	5104.8	5089.9	5005.8	4903.6	4653.0	4321.6	3855.8	3311.7	3231.7	2778.3
12.5°	5549.1	5554.1	5564.0	5534.3	5485.7	5272.1	4932.5	4395.0	3695.9	3616.7	3006.6
15°	5848.4	5863.2	5914.4	5956.4	5982.0	5850.9	5521.9	4946.5	4126.2	4031.4	3259.7
17.5°	5999.3	6015.8	6104.0	6230.9	6348.0	6334.8	6073.5	5472.5	4539.2	4447.7	3531.8
20°	6129.5	6141.9	6240.8	6393.3	6600.3	6691.8	6545.0	5978.7	4991.8	4883.0	3820.3
22.5°	6507.1	6522.8	6552.5	6639.0	6822.0	6990.2	6919.3	6457.6	5406.5	5305.1	4094.0
25°	7235.9	7254.9	7190.5	7117.2	7151.8	7268.9	7282.1	6894.6	5827.0	5712.4	4388.4
27.5°	8113.9	8141.1	8031.5	7842.7	7677.8	7632.4	7616.8	7252.4	6228.5	6095.7	4679.4
30°	8973.8	9020.8	8878.1	8633.3	8330.7	8118.0	7960.6	7602.8	6624.2	6497.2	4953.9
32.5°	9813.8	9794.9	9587.9	9348.9	8994.4	8728.1	8347.2	7978.7	7069.4	6923.4	5226.8
35°	10389.3	10395.9	10203.8	9920.2	9582.2	9377.7	8864.9	8384.3	7523.6	7389.2	5536.8
37.5°	10879.0	10848.5	10630.8	10366.2	10075.2	9987.8	9470.9	8831.1	8015.8	7869.0	5866.5
40°	11042.2	11006.8	10864.1	10673.7	10440.4	10433.0	10139.5	9337.3	8572.3	8427.2	6238.3
42.5°	10943.3	10897.9	10839.4	10787.5	10715.7	10748.7	10767.7	9930.9	9184.0	9021.6	6668.7
45°	10578.1	10509.6	10550.9	10663.8	10819.6	11005.9	11334.9	10588.0	9869.1	9733.0	7174.1
47.5°	10016.6	9954.8	10083.4	10325.0	10748.7	11220.3	11871.6	11313.4	10686.9	10551.7	7893.8
50°	9226.9	9245.0	9428.8	9868.3	10508.8	11319.2	12532.8	12273.9	11875.7	11749.6	8875.7
52.5°	7930.9	7934.2	8451.9	9173.3	10083.4	11268.1	12899.6	13501.4	13499.0	13346.5	9810.5
55°	6727.2	6800.6	7210.3	8169.1	9394.2	11063.7	13156.0	14098.3	14564.9	14386.0	10681.9
57.5°	5551.6	5594.5	5982.8	6945.7	8410.7	10518.7	13419.0	14814.7	15793.3	15680.4	11765.2
60°	4214.4	4280.4	4681.9	5571.4	7152.6	9551.7	13443.7	15562.5	17261.6	17147.8	12974.6
62.5°	2735.4	2849.2	3225.1	4058.6	5630.8	8160.9	12869.9	16051.4	18653.2	18612.8	14048.0
65°	1572.2	1657.9	1919.2	2562.3	3884.6	6414.8	11505.5	15863.4	19509.8	19486.7	14449.5
66°	1284.4	1338.0	1538.4	2002.5	3205.3	5633.2	10712.5	15466.9	19594.7	19595.5	14403.4
67.5°	1027.2	1051.1	1141.0	1433.7	2365.2	4465.0	9295.3	14592.1	19489.2	19518.0	14105.7
70°	850.0	862.3	890.4	961.3	1291.0	2692.5	6597.8	12319.2	18429.8	18452.1	12944.1
72.5°	762.6	770.0	780.7	790.6	911.0	1504.6	4029.7	9855.1	16158.5	16187.4	11174.1
75°	690.9	695.0	693.3	694.2	764.2	958.8	2082.5	7357.9	13065.3	13007.6	8559.9
77.5°	606.8	610.9	602.6	604.3	676.0	737.0	1036.3	5150.9	8817.1	8409.9	4822.8
80°	512.8	516.1	512.8	518.6	588.6	556.5	602.6	2897.8	3898.7	3687.6	1714.8
82.5°	387.5	401.5	411.4	434.5	484.8	395.7	403.1	1128.6	1187.2	1130.3	526.0
85°	169.8	206.9	310.0	332.2	364.4	237.4	264.6	460.0	483.1	468.3	191.3
87.5°	44.5	48.6	153.3	192.9	202.0	107.2	137.7	209.4	220.9	209.4	63.5
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°	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7	2217.7
2.5°	2242.4	2202.0	2129.5	2065.2	2016.5	1983.5	1950.6	1934.1	1924.2	1914.3	1915.9
5°	2314.1	2232.5	2108.0	2019.8	1970.4	1939.0	1922.5	1915.9	1911.8	1901.9	1901.9
7.5°	2422.1	2306.7	2135.2	2044.5	2005.8	1981.9	1972.0	1968.7	1963.8	1952.2	1953.9
10°	2558.2	2396.6	2192.1	2103.9	2068.5	2042.1	2028.1	2023.1	2014.0	2000.9	2002.5
12.5°	2718.1	2507.9	2267.1	2174.8	2131.9	2096.5	2073.4	2059.4	2043.7	2026.4	2027.2
15°	2892.9	2629.1	2347.9	2238.3	2179.8	2130.3	2093.2	2069.3	2044.5	2023.1	2022.3
17.5°	3070.1	2746.1	2409.8	2272.9	2193.8	2128.6	2078.4	2041.3	2010.7	1984.4	1981.9
20°	3261.4	2851.7	2444.4	2269.6	2167.4	2089.9	2023.1	1976.9	1943.1	1916.8	1912.6
22.5°	3455.9	2950.6	2450.2	2235.8	2108.9	2014.0	1944.0	1892.9	1858.2	1831.0	1821.1
25°	3634.0	3027.3	2426.3	2170.7	2027.2	1925.0	1856.6	1804.6	1776.6	1744.5	1734.6
27.5°	3796.4	3080.8	2378.4	2087.4	1935.7	1835.1	1770.8	1726.3	1695.8	1671.1	1662.8
30°	3942.4	3109.7	2300.1	1988.5	1841.7	1750.2	1695.8	1665.3	1638.9	1607.6	1601.8
32.5°	4080.9	3109.7	2199.5	1880.5	1748.6	1675.2	1643.1	1624.1	1594.4	1563.9	1555.7
35°	4219.4	3090.7	2080.8	1767.5	1662.8	1621.6	1620.0	1597.7	1552.4	1511.2	1500.4
37.5°	4365.3	3052.0	1947.3	1662.0	1592.8	1597.7	1611.7	1562.3	1498.0	1439.4	1423.8
40°	4530.2	2998.4	1808.8	1570.5	1534.2	1587.0	1589.5	1511.2	1385.8	1332.3	1318.2
42.5°	4723.9	2944.8	1680.2	1489.7	1488.1	1554.8	1547.4	1400.7	1325.7	1298.5	1291.0
45°	4978.6	2914.3	1558.1	1413.0	1451.8	1502.9	1475.7	1339.7	1308.3	1292.7	1286.1
47.5°	5380.1	2930.0	1446.0	1352.0	1415.5	1451.0	1342.1	1314.9	1292.7	1273.7	1267.1
50°	5883.0	2920.9	1355.3	1310.0	1374.3	1396.6	1282.0	1282.8	1271.2	1249.8	1239.9
52.5°	6261.4	2850.0	1296.8	1286.1	1338.0	1300.1	1244.0	1251.5	1245.7	1214.4	1203.6
55°	6626.6	2789.0	1267.1	1277.0	1311.6	1179.7	1199.5	1217.7	1211.9	1181.4	1176.4
57.5°	7080.9	2777.5	1249.0	1279.5	1289.4	1119.6	1156.7	1180.6	1176.4	1163.2	1160.8
60°	7637.4	2780.8	1232.5	1283.6	1264.7	1075.0	1116.3	1146.8	1149.2	1146.8	1145.1
62.5°	7943.2	2690.9	1191.3	1272.1	1221.0	1036.3	1074.2	1118.7	1119.6	1124.5	1123.7
65°	7683.5	2422.1	1114.6	1231.7	1147.6	1004.1	1037.9	1086.6	1074.2	1096.5	1096.5
66°	7431.3	2267.1	1076.7	1205.3	1116.3	991.8	1026.4	1070.1	1054.4	1084.9	1084.9
67.5°	6916.0	2005.8	1008.3	1149.2	1071.7	974.5	1013.2	1042.9	1021.5	1066.8	1063.5
70°	5974.5	1551.5	870.6	1022.3	998.4	948.9	995.1	988.5	957.1	1026.4	1013.2
72.5°	5037.2	1178.9	699.1	855.7	887.1	916.7	969.5	919.2	879.7	928.3	899.4
75°	3908.6	886.2	552.4	665.3	749.4	866.5	939.0	839.3	782.4	777.4	761.8
77.5°	2113.0	608.4	437.8	507.8	595.2	803.8	918.4	753.5	667.8	648.0	635.6
80°	836.8	395.7	318.2	385.0	416.3	713.1	868.9	653.8	550.7	530.9	512.0
82.5°	345.4	234.1	205.3	258.0	271.2	610.1	779.9	535.9	425.4	588.6	624.9
85°	148.4	128.6	122.0	133.6	153.3	427.9	620.8	408.9	459.2	409.7	325.6
87.5°	44.5	54.4	51.9	51.1	56.1	102.2	330.6	227.5	337.2	127.8	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)