

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: P320074

Luminaire Tested: **GAN-SA0A-760-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43830 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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

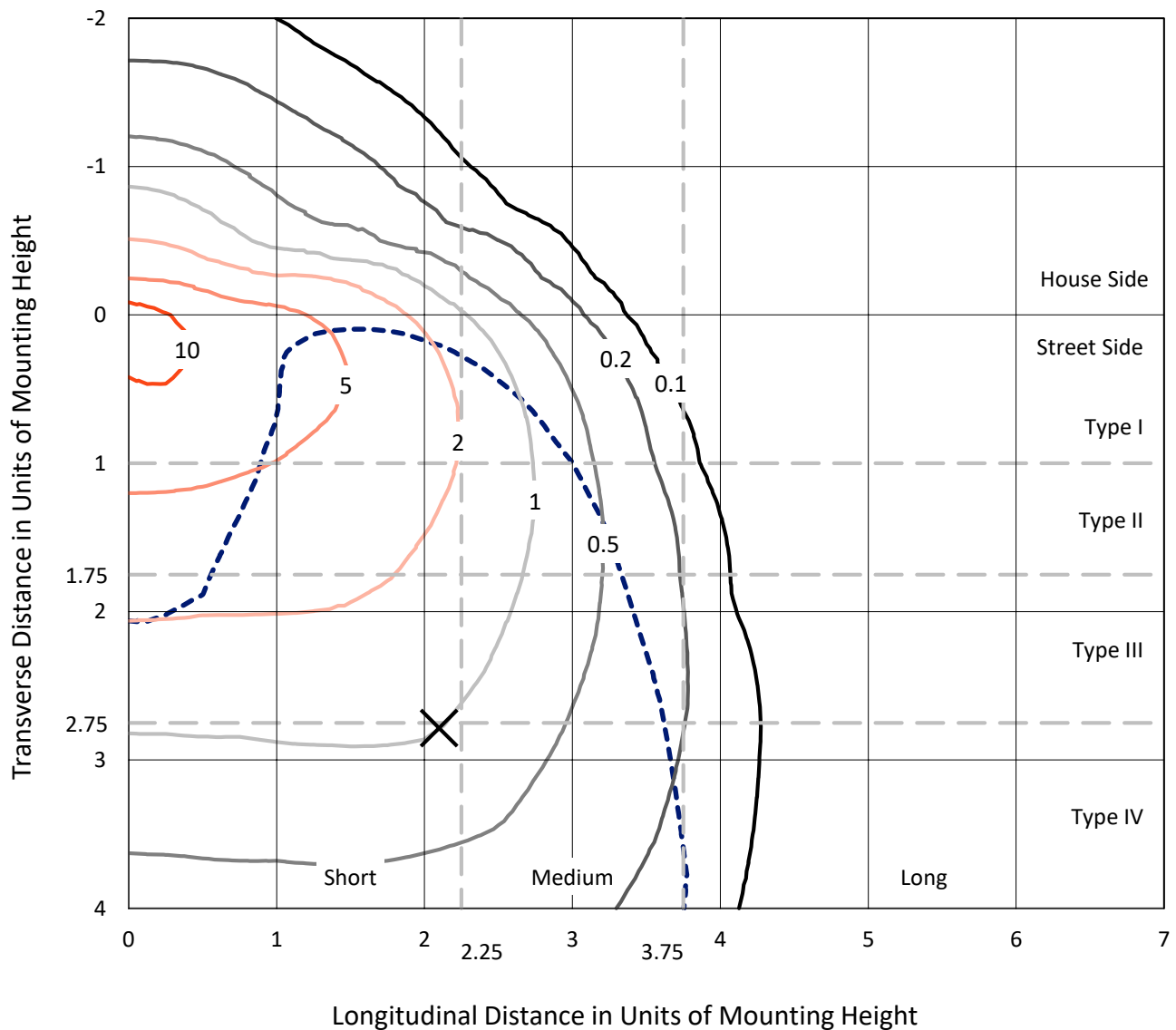


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Iso-Footcandle Lines of Horizontal Illumination

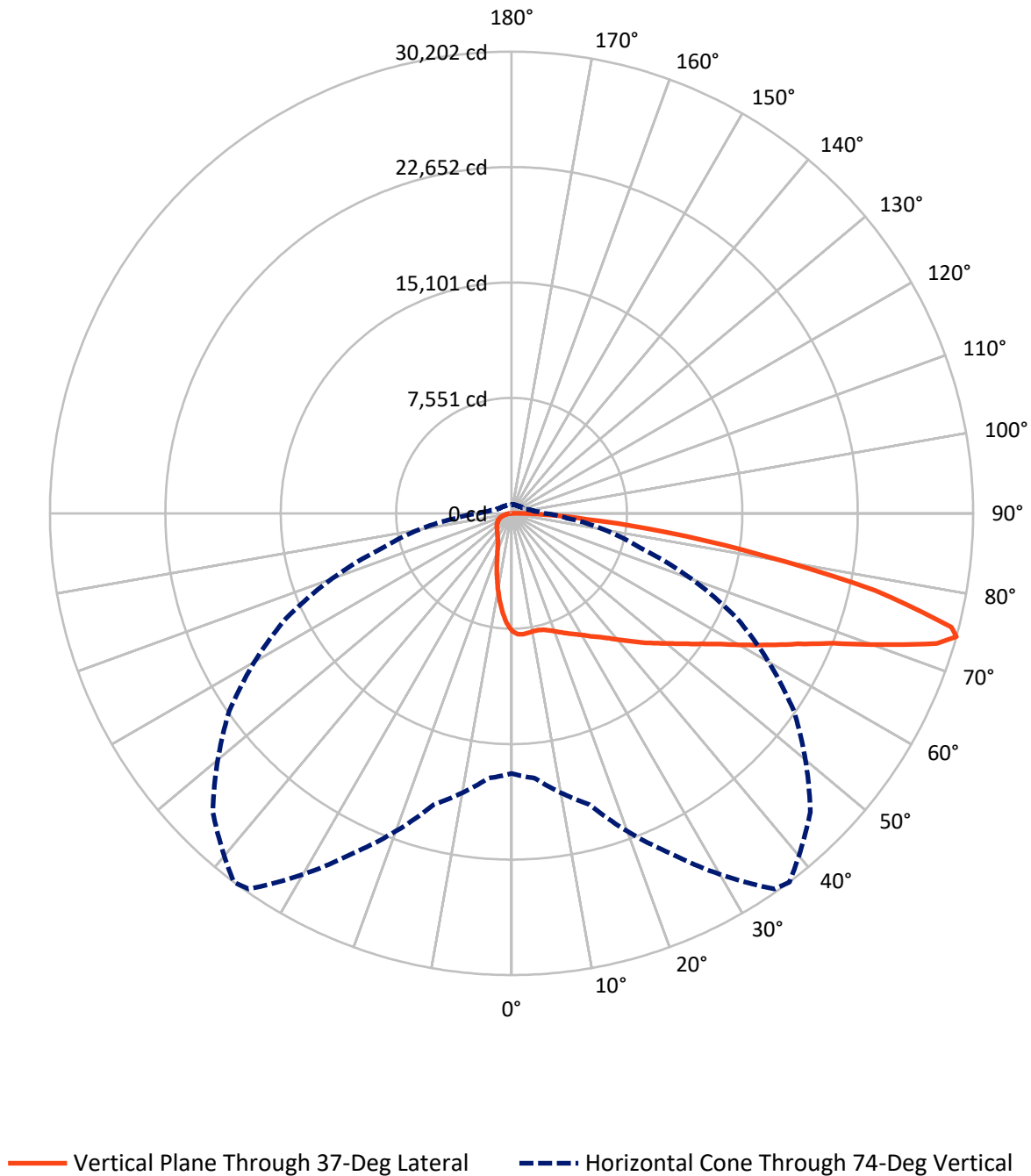
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6030.7	0.0	6030.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	37799.3	0.0	37799.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	43830.0	0.0	43830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.1	1.6
10°-20°	1743.2	4.0
20°-30°	2685.9	6.1
30°-40°	3905.7	8.9
40°-50°	5748.6	13.1
50°-60°	8072.8	18.4
60°-70°	10217.7	23.3
70°-80°	8997.1	20.5
80°-90°	1778.9	4.1
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°	43830.0	100.0
0°-180°	43830.0	100.0

Coefficient of Utilization



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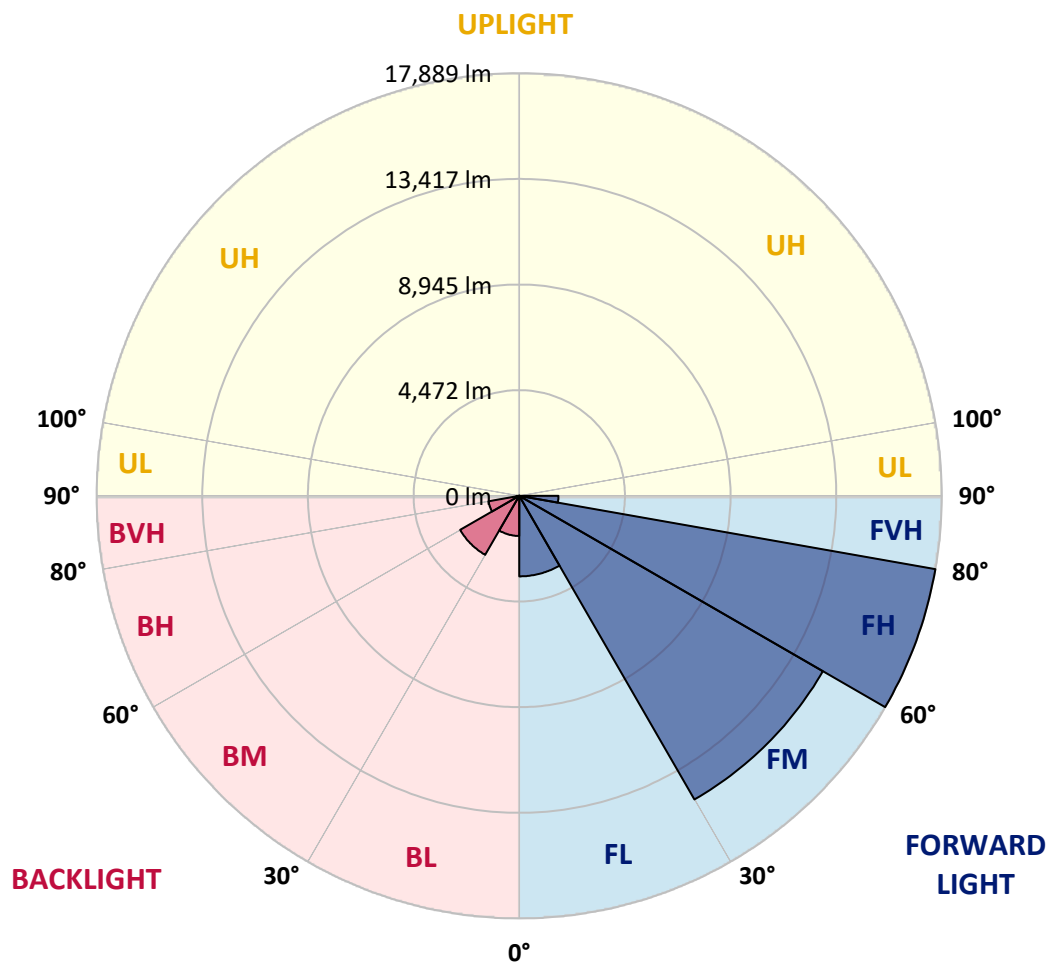
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3410.5	7.8			
FM	(30°-60°)	14841.2	33.9			
FH	(60°-80°)	17889.2	40.8			G5
FVH	(80°-90°)	1658.5	3.8			G5
BL	(0°-30°)	1698.7	3.9	B3/2500		
BM	(30°-60°)	2885.9	6.6	B3/5000		
BH	(60°-80°)	1325.6	3.0	B3/2500		G3/2500
BVH	(80°-90°)	120.5	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	7722.7	7722.7	7722.7	7722.7	7722.7	7722.7	7722.7	7722.7	7722.7	7722.7	7722.7
2.5°	7986.7	7988.2	7986.7	7974.3	7945.0	7920.3	7900.2	7870.9	7806.0	7756.6	7682.5
5°	8062.3	8053.1	8046.9	8023.7	7977.4	7949.6	7911.0	7855.5	7748.9	7650.1	7529.7
7.5°	8026.8	8016.0	8002.1	7974.3	7921.8	7898.7	7844.6	7772.1	7643.9	7514.2	7341.3
10°	7917.2	7914.1	7907.9	7901.8	7857.0	7838.5	7789.1	7711.9	7585.3	7427.8	7225.5
12.5°	7795.2	7803.0	7827.7	7860.1	7840.0	7830.8	7799.9	7747.4	7617.7	7447.9	7203.9
15°	7718.0	7739.7	7806.0	7891.0	7907.9	7904.9	7897.1	7863.2	7725.8	7537.4	7253.3
17.5°	7691.8	7727.3	7853.9	7994.4	8043.8	8054.6	8057.7	7999.0	7846.2	7647.0	7304.3
20°	7739.7	7784.4	7969.7	8162.7	8241.4	8247.6	8233.7	8131.8	7960.4	7741.2	7332.1
22.5°	7884.8	7924.9	8156.5	8374.2	8463.8	8473.0	8431.3	8276.9	8080.9	7852.4	7370.7
25°	8164.2	8213.6	8445.2	8662.9	8709.2	8710.8	8650.6	8459.1	8238.3	8008.3	7454.0
27.5°	8528.6	8578.0	8786.4	8999.5	8974.8	8960.9	8879.1	8687.6	8443.7	8222.9	7602.3
30°	8934.7	8988.7	9186.3	9337.6	9278.9	9251.2	9184.8	8937.7	8729.3	8516.2	7829.2
32.5°	9354.6	9404.0	9576.9	9680.4	9606.3	9593.9	9493.5	9268.1	9101.4	8964.0	8196.7
35°	9785.4	9820.9	9990.7	10049.4	9950.5	9947.5	9919.7	9712.8	9607.8	9672.6	8730.9
37.5°	10225.4	10234.6	10379.8	10382.8	10353.5	10365.9	10395.2	10265.5	10294.8	10497.1	9425.6
40°	10617.5	10642.2	10747.2	10779.6	10830.6	10873.8	11020.5	10935.6	11162.5	11520.7	10290.2
42.5°	10907.8	10955.6	11123.9	11207.3	11372.5	11440.4	11647.3	11726.1	12183.1	12720.3	11318.5
45°	11153.3	11227.4	11497.6	11668.9	11948.4	12067.3	12363.7	12627.7	13336.4	14021.9	12400.7
47.5°	11418.8	11513.0	11851.1	12178.4	12558.2	12692.5	13231.4	13626.6	14566.9	15331.1	13421.3
50°	11809.4	11882.0	12212.4	12726.5	13200.5	13373.4	14119.1	14685.7	15817.4	16578.6	14305.9
52.5°	12354.4	12326.6	12606.1	13327.1	13963.2	14176.3	15067.1	15812.8	17085.0	17707.2	15053.2
55°	12902.5	12856.2	13052.3	13955.5	14852.5	15076.4	16110.8	16944.5	18290.8	18723.1	15626.0
57.5°	13512.4	13424.4	13589.6	14664.1	15865.3	16132.4	17279.5	18147.2	19476.5	19544.5	15990.4
60°	14140.7	14021.9	14207.1	15542.6	17151.4	17466.3	18647.4	19320.6	20594.3	20202.2	16107.7
62.5°	14690.4	14607.0	14892.6	16523.0	18601.1	18947.0	19990.6	20568.1	21696.7	20475.4	15684.7
65°	15170.5	15184.4	15678.5	17625.4	20217.6	20586.6	21531.5	22105.8	22564.4	20313.3	14695.0
67.5°	15743.3	15822.1	16665.0	19076.6	22252.5	22657.0	23773.2	23782.5	23049.1	19362.3	12746.6
70°	16578.6	16740.7	18022.2	21089.9	25145.8	25701.6	26563.1	24767.5	22368.3	16783.9	10029.3
72.5°	17319.7	17622.3	19465.7	23393.4	28672.1	29093.6	28195.0	24199.4	19522.8	12578.3	6248.2
74°	17018.6	17393.8	19728.2	24528.2	29999.9	30202.1	27643.8	22541.2	16277.5	8710.8	3631.3
75°	16370.2	16777.8	19345.3	24517.4	29831.6	29718.9	26313.0	20646.8	13405.8	5941.0	2416.2
77.5°	13211.3	13642.1	16300.7	21012.7	24460.3	24353.8	20213.0	13850.5	5871.5	1948.4	1227.4
80°	7681.0	8009.8	10118.8	13344.1	16493.7	16686.7	13293.1	6853.5	2309.7	1094.6	832.2
82.5°	3412.1	3639.0	4888.0	6811.8	9953.6	10202.2	6961.5	3591.2	1426.6	665.4	500.2
85°	2238.7	2407.0	2967.4	3243.8	4739.8	4909.7	3407.4	2796.0	941.8	365.9	367.5
87.5°	1610.3	1772.4	2204.7	1925.3	2175.4	2059.6	1854.2	2587.6	378.3	208.4	123.5
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°	7722.7	7722.7	7722.7	7722.7	7722.7	7722.7	7722.7	7722.7	7722.7	7722.7	7722.7
2.5°	7650.1	7625.4	7569.8	7464.8	7406.2	7356.8	7274.9	7227.1	7205.5	7203.9	7213.2
5°	7460.2	7403.1	7259.5	7083.5	6943.0	6814.9	6655.8	6560.1	6492.2	6452.0	6462.8
7.5°	7239.4	7149.9	6924.5	6643.5	6418.1	6169.5	5924.0	5777.3	5663.1	5578.2	5593.6
10°	7088.1	6964.6	6635.8	6231.3	5856.1	5494.8	5156.7	4954.4	4793.9	4670.4	4679.6
12.5°	7037.2	6870.4	6415.0	5874.6	5348.1	4854.1	4412.5	4102.2	3937.0	3796.5	3807.3
15°	7044.9	6821.0	6229.7	5553.5	4891.1	4268.9	3733.2	3370.4	3146.5	3049.2	3050.8
17.5°	7051.1	6763.9	6035.2	5209.2	4438.8	3722.4	3140.3	2772.9	2561.4	2471.8	2473.4
20°	7031.0	6671.3	5794.3	4813.9	3966.3	3220.6	2657.1	2345.2	2184.6	2115.2	2115.2
22.5°	7004.8	6561.7	5522.6	4417.1	3500.1	2785.2	2311.2	2073.5	1980.8	1934.5	1933.0
25°	7017.1	6479.8	5244.7	4009.6	3070.9	2437.8	2081.2	1923.7	1862.0	1832.6	1831.1
27.5°	7083.5	6441.2	4988.4	3603.5	2695.7	2176.9	1926.8	1815.6	1775.5	1757.0	1757.0
30°	7203.9	6441.2	4721.3	3257.7	2383.8	1983.9	1807.9	1732.3	1704.5	1692.1	1692.1
32.5°	7413.9	6476.7	4463.5	2914.9	2135.2	1832.6	1709.1	1658.2	1636.6	1630.4	1630.4
35°	7775.2	6597.2	4211.8	2590.7	1934.5	1709.1	1614.9	1585.6	1570.2	1568.6	1573.3
37.5°	8283.1	6842.6	3975.6	2351.4	1792.5	1608.8	1536.2	1513.0	1503.8	1511.5	1517.7
40°	8922.3	7176.1	3761.0	2135.2	1684.4	1528.5	1463.6	1448.2	1443.6	1454.4	1463.6
42.5°	9694.3	7627.0	3585.0	1979.3	1601.0	1460.5	1401.9	1383.4	1378.7	1391.1	1403.4
45°	10529.5	8111.7	3461.5	1863.5	1536.2	1409.6	1347.8	1327.8	1318.5	1324.7	1338.6
47.5°	11289.1	8570.3	3412.1	1781.7	1474.4	1366.4	1300.0	1275.3	1259.8	1256.7	1267.6
50°	11929.9	8911.5	3435.2	1732.3	1425.0	1318.5	1253.7	1225.9	1202.7	1188.8	1196.5
52.5°	12396.1	9126.1	3456.8	1710.7	1386.4	1266.0	1202.7	1176.5	1145.6	1122.4	1122.4
55°	12734.2	9175.5	3409.0	1693.7	1357.1	1208.9	1145.6	1120.9	1090.0	1063.8	1060.7
57.5°	12867.0	9036.6	3231.4	1669.0	1337.0	1154.9	1085.4	1066.8	1040.6	1009.7	1008.2
60°	12687.9	8607.3	2888.7	1616.5	1310.8	1110.1	1025.2	1012.8	1000.5	971.1	969.6
62.5°	11968.4	7665.6	2445.6	1510.0	1258.3	1062.2	969.6	975.8	977.3	957.2	954.1
65°	10663.8	6371.7	2013.3	1371.0	1179.6	1005.1	912.5	941.8	958.8	955.7	951.1
67.5°	8767.9	4959.1	1706.0	1224.3	1076.1	926.4	850.7	884.7	898.6	909.4	906.3
70°	6507.6	3497.0	1411.1	1069.9	951.1	833.7	770.4	787.4	778.1	790.5	795.1
72.5°	3628.2	2098.2	1150.2	915.5	821.4	725.6	680.9	677.8	657.7	657.7	657.7
74°	2176.9	1539.3	1011.3	819.8	742.6	654.6	616.0	602.1	583.6	585.1	583.6
75°	1750.8	1323.1	927.9	756.5	687.0	612.9	574.3	555.8	541.9	541.9	540.4
77.5°	1105.4	1005.1	747.3	602.1	549.6	504.9	478.6	453.9	453.9	452.4	450.8
80°	835.3	799.7	582.1	455.5	421.5	387.5	370.5	359.7	359.7	364.4	362.8
82.5°	572.8	602.1	409.1	318.0	301.1	276.4	273.3	274.8	270.2	264.0	262.5
85°	418.4	452.4	276.4	200.7	183.7	168.3	180.6	186.8	179.1	165.2	159.0
87.5°	160.6	296.4	148.2	83.4	77.2	66.4	77.2	80.3	86.5	67.9	69.5
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)