

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: P320003

Luminaire Tested: **GAN-SA9B-740-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320003
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-SA9B-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA 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: 48546 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

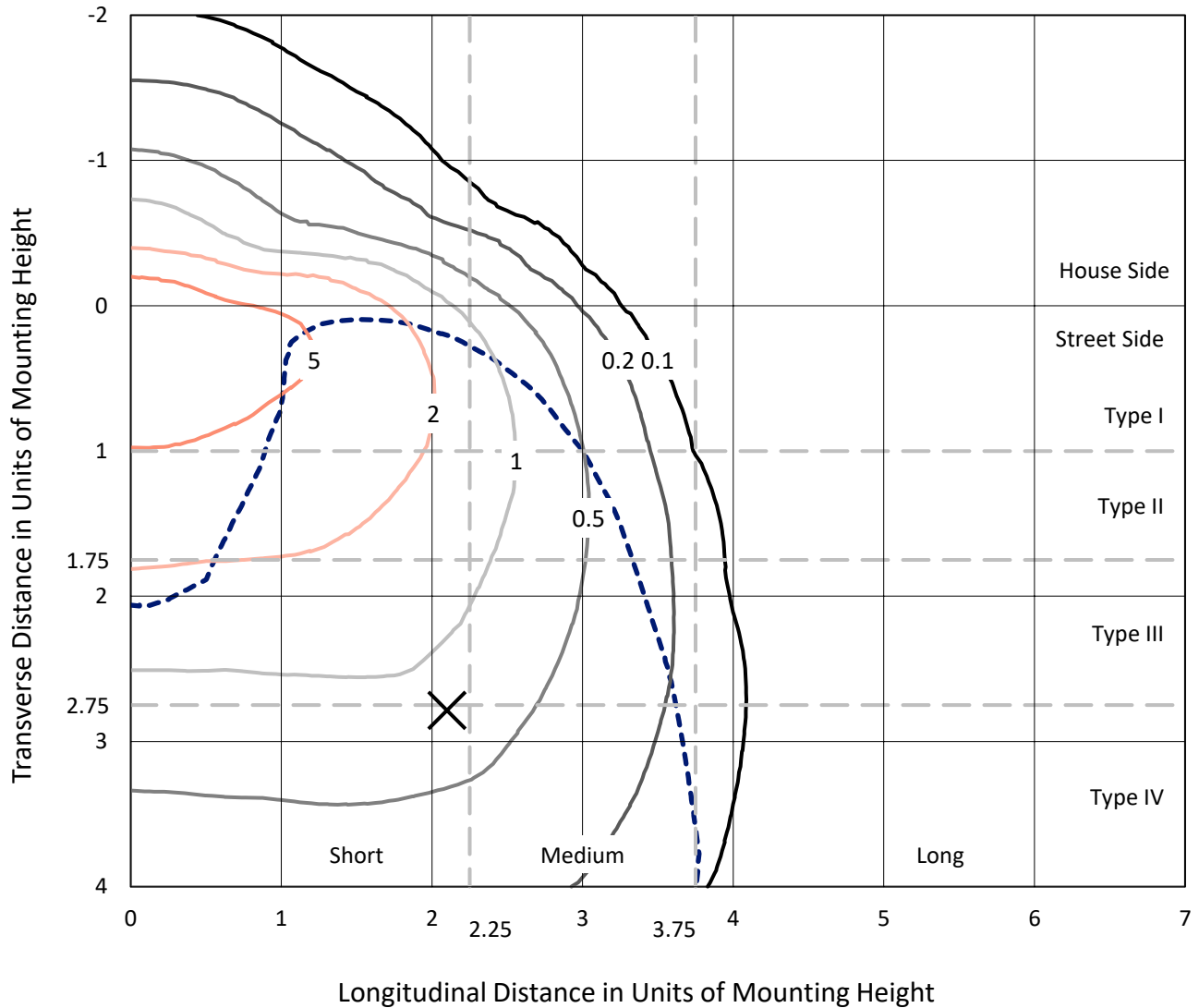
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

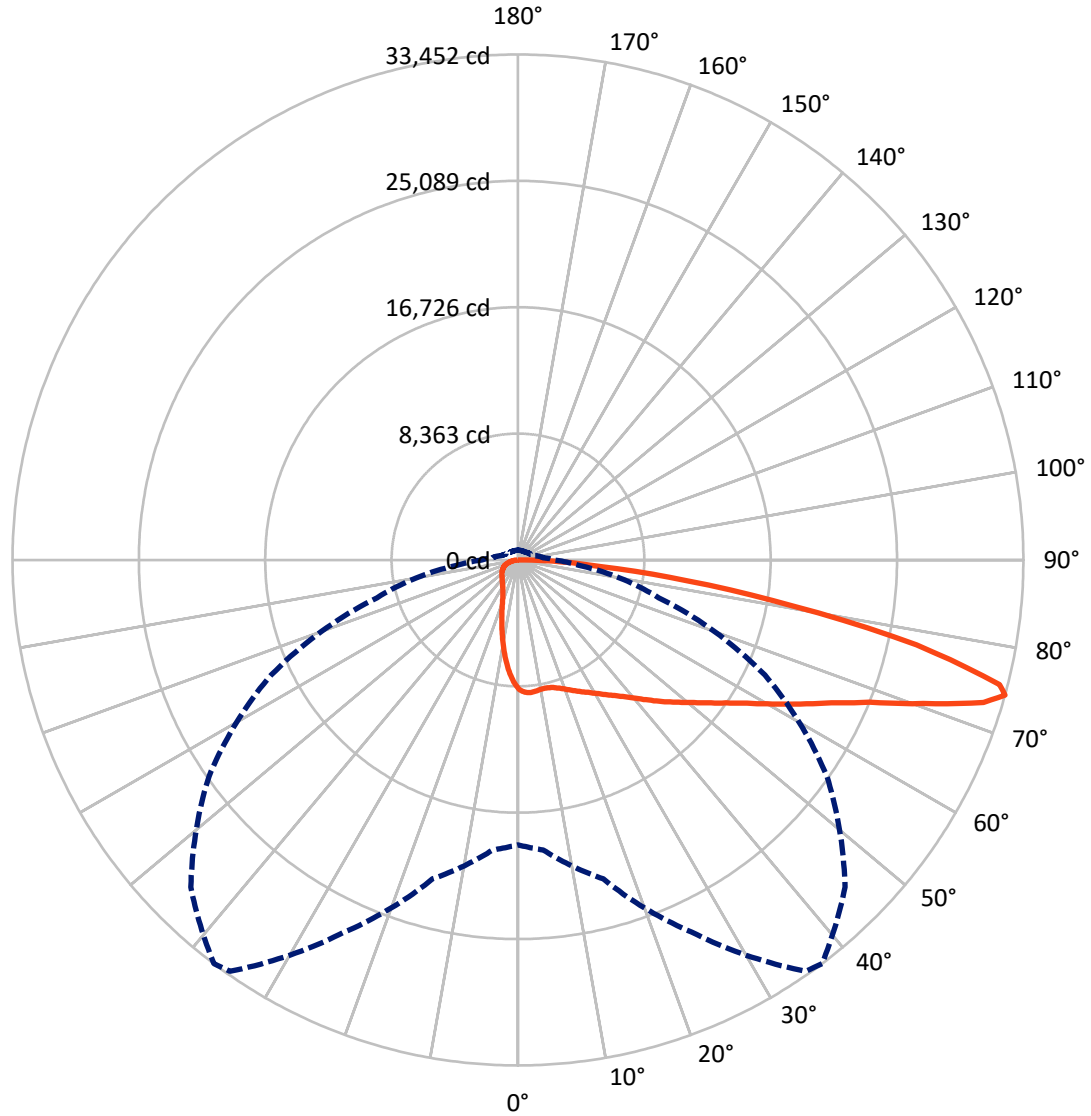
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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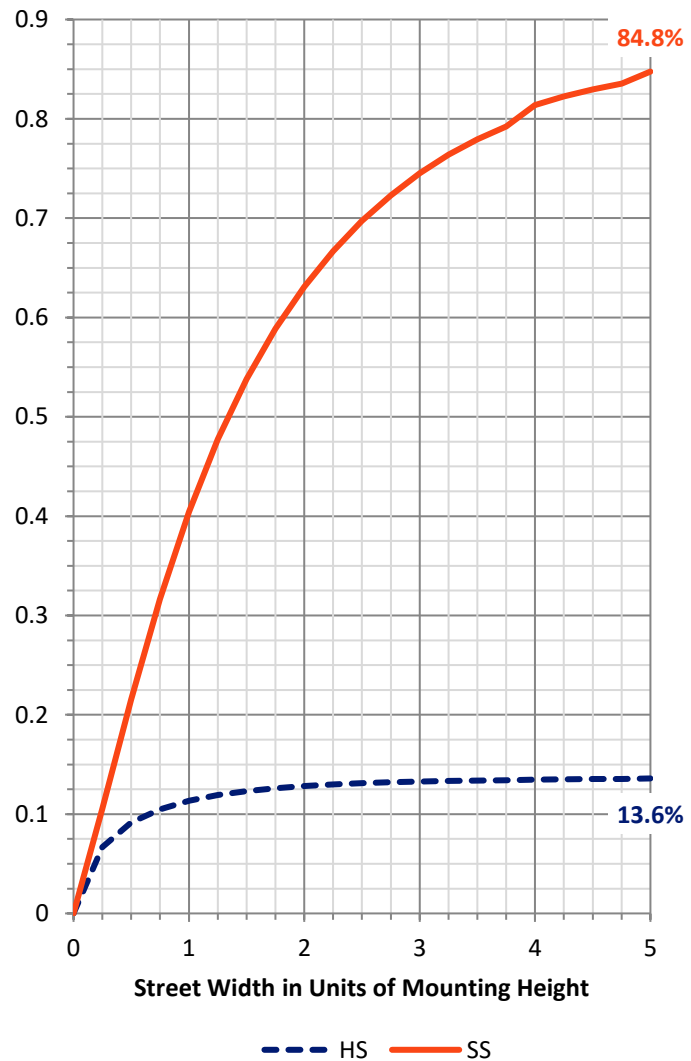
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6679.6	0.0	6679.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	41866.4	0.0	41866.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	48546.0	0.0	48546.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.2	1.6
10°-20°	1930.8	4.0
20°-30°	2974.9	6.1
30°-40°	4326.0	8.9
40°-50°	6367.1	13.1
50°-60°	8941.4	18.4
60°-70°	11317.1	23.3
70°-80°	9965.1	20.5
80°-90°	1970.3	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°	48546.0	100.0
0°-180°	48546.0	100.0

Coefficient of Utilization



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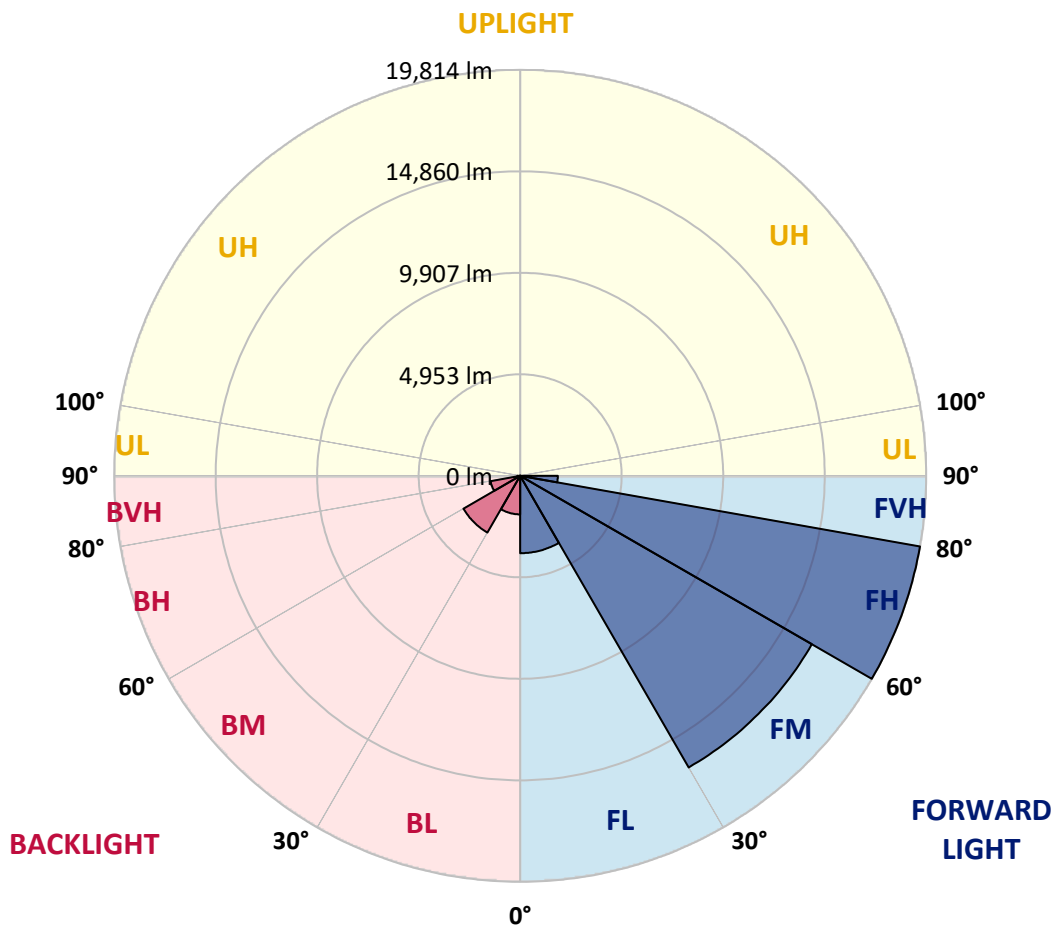
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3777.4	7.8			
FM (30°-60°)	16438.1	33.9			
FH (60°-80°)	19814.0	40.8			G5
FVH (80°-90°)	1836.9	3.8			G5
BL (0°-30°)	1881.5	3.9	B3/2500		
BM (30°-60°)	3196.4	6.6	B3/5000		
BH (60°-80°)	1468.2	3.0	B3/2500		G3/2500
BVH (80°-90°)	133.4	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°	8553.6	8553.6	8553.6	8553.6	8553.6	8553.6	8553.6	8553.6	8553.6	8553.6	8553.6
2.5°	8846.0	8847.7	8846.0	8832.4	8799.9	8772.5	8750.3	8717.8	8646.0	8591.2	8509.2
5°	8929.8	8919.6	8912.7	8887.1	8835.8	8805.0	8762.2	8700.7	8582.7	8473.2	8339.9
7.5°	8890.5	8878.5	8863.1	8832.4	8774.2	8748.6	8688.7	8608.3	8466.4	8322.8	8131.2
10°	8769.1	8765.7	8758.8	8752.0	8702.4	8681.9	8627.1	8541.6	8401.4	8227.0	8003.0
12.5°	8634.0	8642.5	8669.9	8705.8	8683.6	8673.3	8639.1	8581.0	8437.3	8249.2	7979.0
15°	8548.5	8572.4	8646.0	8740.0	8758.8	8755.4	8746.9	8709.2	8557.0	8348.4	8033.8
17.5°	8519.4	8558.7	8699.0	8854.6	8909.3	8921.3	8924.7	8859.7	8690.4	8469.8	8090.2
20°	8572.4	8622.0	8827.2	9041.0	9128.2	9135.0	9119.6	9006.8	8817.0	8574.1	8121.0
22.5°	8733.2	8777.6	9034.1	9275.3	9374.4	9384.7	9338.5	9167.5	8950.3	8697.3	8163.7
25°	9042.7	9097.4	9353.9	9595.0	9646.3	9648.0	9581.4	9369.3	9124.8	8870.0	8256.1
27.5°	9446.3	9501.0	9731.8	9967.8	9940.5	9925.1	9834.4	9622.4	9352.2	9107.7	8420.2
30°	9896.0	9955.8	10174.7	10342.3	10277.3	10246.6	10173.0	9899.4	9668.6	9432.6	8671.6
32.5°	10361.1	10415.8	10607.4	10721.9	10639.9	10626.2	10515.0	10265.4	10080.7	9928.5	9078.6
35°	10838.2	10877.6	11065.7	11130.6	11021.2	11017.8	10987.0	10757.9	10641.6	10713.4	9670.3
37.5°	11325.6	11335.9	11496.6	11500.0	11467.5	11481.2	11513.7	11370.1	11402.5	11626.6	10439.8
40°	11759.9	11787.3	11903.6	11939.5	11995.9	12043.8	12206.3	12112.2	12363.6	12760.3	11397.4
42.5°	12081.4	12134.4	12320.8	12413.2	12596.2	12671.4	12900.5	12987.7	13493.9	14089.0	12536.3
45°	12353.3	12435.4	12734.7	12924.5	13234.0	13365.7	13694.0	13986.4	14771.3	15530.6	13735.0
47.5°	12647.5	12751.8	13126.3	13488.8	13909.5	14058.2	14655.0	15092.8	16134.2	16980.7	14865.4
50°	13080.1	13160.5	13526.4	14095.9	14620.8	14812.4	15638.3	16265.9	17519.4	18362.4	15845.2
52.5°	13683.7	13653.0	13962.5	14761.1	15465.6	15701.6	16688.3	17514.2	18923.3	19612.4	16672.9
55°	14290.8	14239.5	14456.7	15457.0	16450.6	16698.5	17844.3	18767.7	20258.8	20737.6	17307.3
57.5°	14966.3	14868.8	15051.8	16242.0	17572.4	17868.2	19138.8	20099.8	21572.1	21647.4	17710.9
60°	15662.3	15530.6	15735.8	17215.0	18996.8	19345.7	20653.9	21399.4	22810.2	22375.9	17840.8
62.5°	16271.0	16178.7	16495.0	18300.8	20602.6	20985.6	22141.6	22781.1	24031.2	22678.5	17372.3
65°	16802.8	16818.2	17365.5	19521.8	22393.0	22801.7	23848.2	24484.3	24992.2	22499.0	16276.2
67.5°	17437.3	17524.5	18458.2	21129.2	24646.8	25094.8	26331.2	26341.4	25529.2	21445.6	14118.1
70°	18362.4	18542.0	19961.3	23359.1	27851.4	28467.0	29421.2	27432.5	24775.1	18589.8	11108.4
72.5°	19183.2	19518.4	21560.2	25910.5	31757.1	32224.0	31228.7	26803.2	21623.4	13931.7	6920.5
74°	18849.8	19265.3	21850.9	27167.4	33227.8	33451.8	30618.3	24966.6	18028.9	9648.0	4022.0
75°	18131.5	18583.0	21426.8	27155.4	33041.4	32916.5	29144.2	22868.4	14848.3	6580.2	2676.2
77.5°	14632.8	15109.9	18054.6	23273.6	27092.2	26974.2	22387.8	15340.8	6503.3	2158.1	1359.5
80°	8507.4	8871.7	11207.6	14779.9	18268.4	18482.1	14723.4	7590.9	2558.2	1212.4	921.7
82.5°	3779.2	4030.6	5414.0	7544.7	11024.6	11299.9	7710.6	3977.6	1580.1	737.0	554.1
85°	2479.6	2666.0	3286.7	3592.8	5249.8	5437.9	3774.1	3096.9	1043.1	405.3	407.0
87.5°	1783.6	1963.1	2441.9	2132.4	2409.4	2281.2	2053.8	2866.0	419.0	230.9	136.8
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°	8553.6	8553.6	8553.6	8553.6	8553.6	8553.6	8553.6	8553.6	8553.6	8553.6	8553.6
2.5°	8473.2	8445.9	8384.3	8268.0	8203.1	8148.3	8057.7	8004.7	7980.8	7979.0	7989.3
5°	8262.9	8199.6	8040.6	7845.7	7690.0	7548.1	7372.0	7266.0	7190.7	7146.3	7158.2
7.5°	8018.4	7919.2	7669.5	7358.3	7108.6	6833.3	6561.4	6399.0	6272.4	6178.4	6195.5
10°	7850.8	7714.0	7349.7	6901.7	6486.2	6086.0	5711.5	5487.5	5309.7	5172.9	5183.1
12.5°	7794.4	7609.7	7105.2	6506.7	5923.6	5376.4	4887.3	4543.6	4360.6	4205.0	4217.0
15°	7802.9	7555.0	6900.0	6151.0	5417.4	4728.3	4134.9	3733.0	3485.1	3377.3	3379.0
17.5°	7809.7	7491.7	6684.5	5769.7	4916.4	4122.9	3478.2	3071.2	2837.0	2737.8	2739.5
20°	7787.5	7389.1	6417.8	5331.9	4393.1	3567.1	2943.0	2597.5	2419.7	2342.8	2342.8
22.5°	7758.4	7267.7	6116.8	4892.4	3876.7	3084.9	2559.9	2296.6	2194.0	2142.7	2141.0
25°	7772.1	7177.0	5809.0	4441.0	3401.3	2700.2	2305.1	2130.7	2062.3	2029.8	2028.1
27.5°	7845.7	7134.3	5525.1	3991.2	2985.7	2411.2	2134.1	2011.0	1966.5	1946.0	1946.0
30°	7979.0	7134.3	5229.3	3608.2	2640.3	2197.4	2002.5	1918.7	1887.9	1874.2	1874.2
32.5°	8211.6	7173.6	4943.7	3228.6	2365.0	2029.8	1893.0	1836.6	1812.6	1805.8	1805.8
35°	8611.8	7307.0	4665.0	2869.4	2142.7	1893.0	1788.7	1756.2	1739.1	1737.4	1742.5
37.5°	9174.4	7578.9	4403.4	2604.4	1985.4	1781.9	1701.5	1675.8	1665.6	1674.1	1681.0
40°	9882.3	7948.3	4165.7	2365.0	1865.7	1692.9	1621.1	1604.0	1598.9	1610.9	1621.1
42.5°	10737.3	8447.6	3970.7	2192.3	1773.3	1617.7	1552.7	1532.2	1527.1	1540.7	1554.4
45°	11662.5	8984.5	3833.9	2064.0	1701.5	1561.3	1492.9	1470.6	1460.4	1467.2	1482.6
47.5°	12503.8	9492.4	3779.2	1973.4	1633.1	1513.4	1439.9	1412.5	1395.4	1392.0	1403.9
50°	13213.5	9870.3	3804.8	1918.7	1578.4	1460.4	1388.6	1357.8	1332.1	1316.7	1325.3
52.5°	13729.9	10108.0	3828.8	1894.7	1535.6	1402.2	1332.1	1303.1	1268.8	1243.2	1243.2
55°	14104.4	10162.8	3775.8	1875.9	1503.1	1339.0	1268.8	1241.5	1207.3	1178.2	1174.8
57.5°	14251.5	10008.9	3579.1	1848.6	1480.9	1279.1	1202.2	1181.6	1152.6	1118.4	1116.7
60°	14053.1	9533.5	3199.5	1790.4	1451.8	1229.5	1135.5	1121.8	1108.1	1075.6	1073.9
62.5°	13256.2	8490.3	2708.7	1672.4	1393.7	1176.5	1073.9	1080.7	1082.5	1060.2	1056.8
65°	11811.2	7057.3	2229.9	1518.5	1306.5	1113.2	1010.6	1043.1	1061.9	1058.5	1053.4
67.5°	9711.3	5492.6	1889.6	1356.1	1191.9	1026.0	942.2	979.9	995.2	1007.2	1003.8
70°	7207.8	3873.2	1563.0	1185.1	1053.4	923.4	853.3	872.1	861.9	875.5	880.7
72.5°	4018.6	2323.9	1274.0	1014.1	909.7	803.7	754.1	750.7	728.5	728.5	728.5
74°	2411.2	1704.9	1120.1	908.0	822.5	725.1	682.3	666.9	646.4	648.1	646.4
75°	1939.2	1465.5	1027.7	837.9	761.0	678.9	636.1	615.6	600.2	600.2	598.5
77.5°	1224.4	1113.2	827.7	666.9	608.8	559.2	530.1	502.8	502.8	501.0	499.3
80°	925.1	885.8	644.7	504.5	466.8	429.2	410.4	398.4	398.4	403.6	401.9
82.5°	634.4	666.9	453.2	352.3	333.5	306.1	302.7	304.4	299.3	292.4	290.7
85°	463.4	501.0	306.1	222.3	203.5	186.4	200.1	206.9	198.4	183.0	176.1
87.5°	177.8	328.3	164.2	92.3	85.5	73.5	85.5	88.9	95.8	75.2	77.0
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)