

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: McGRAW-EDISON

Report Number: P950545

Luminaire Tested: **GALN-SB5A-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19037 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 141.7
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

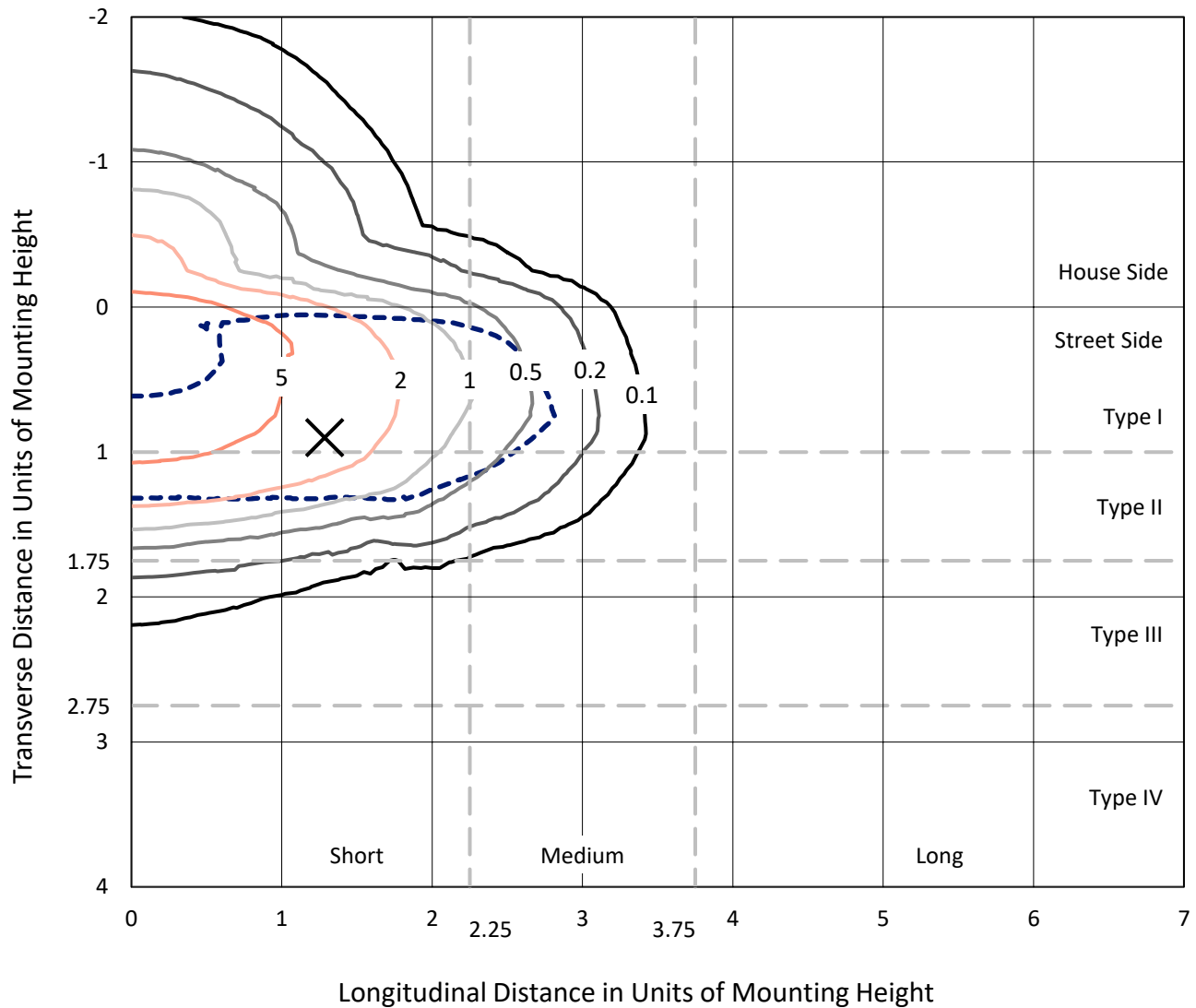


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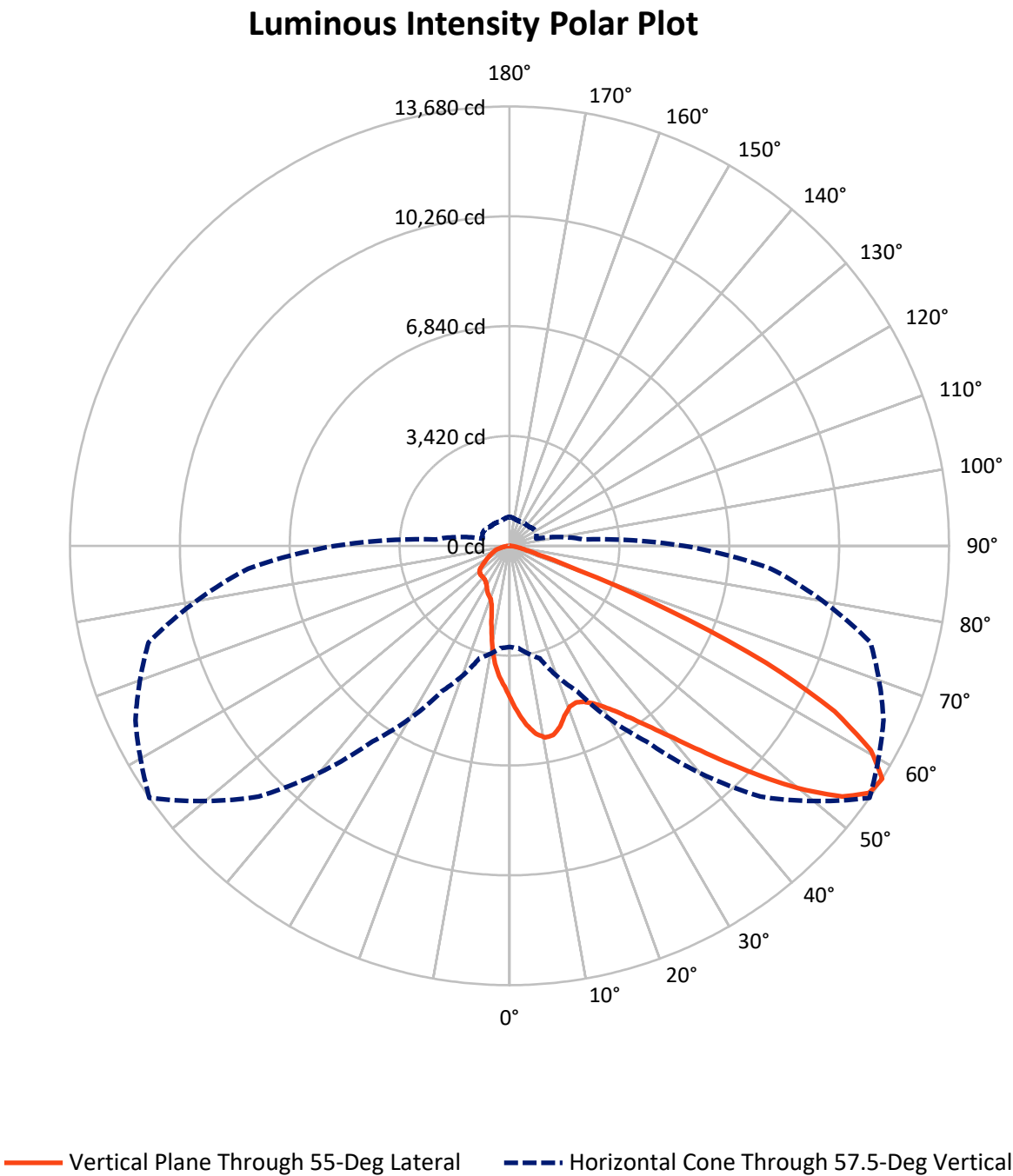
Iso-Footcandle Lines of Horizontal Illumination

✕ 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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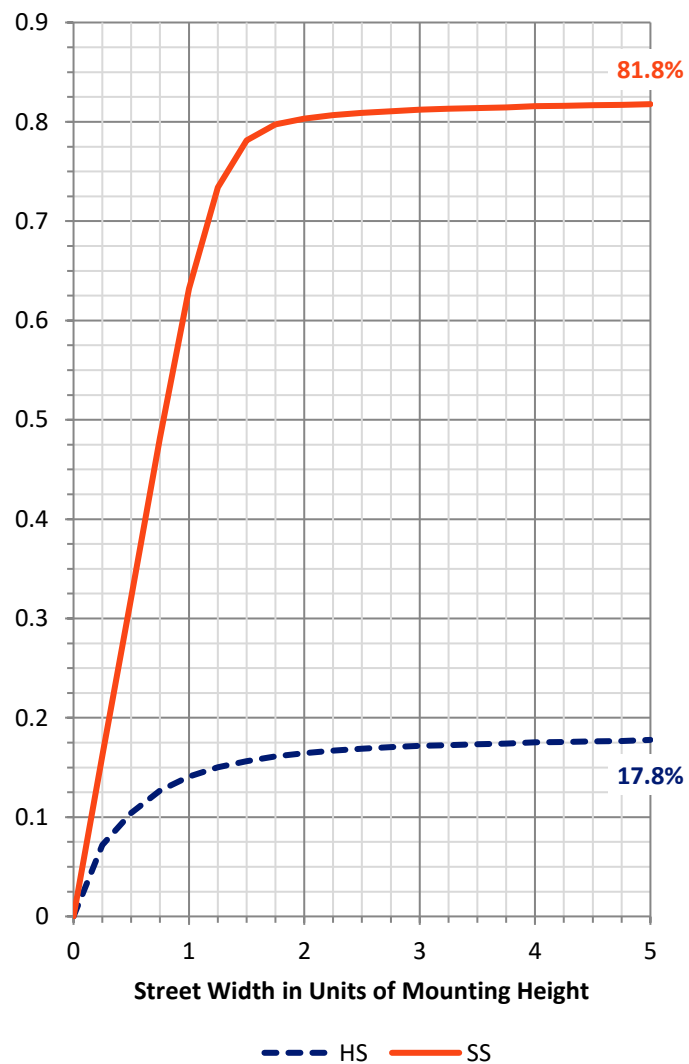
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3444.7	0.0	3444.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15592.4	0.0	15592.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	19037.0	0.0	19037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.6	2.3
10°-20°	1117.2	5.9
20°-30°	1782.8	9.4
30°-40°	2822.6	14.8
40°-50°	4320.2	22.7
50°-60°	4627.4	24.3
60°-70°	2911.1	15.3
70°-80°	860.9	4.5
80°-90°	152.2	0.8
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°	19037.0	100.0
0°-180°	19037.0	100.0

Coefficient of Utilization



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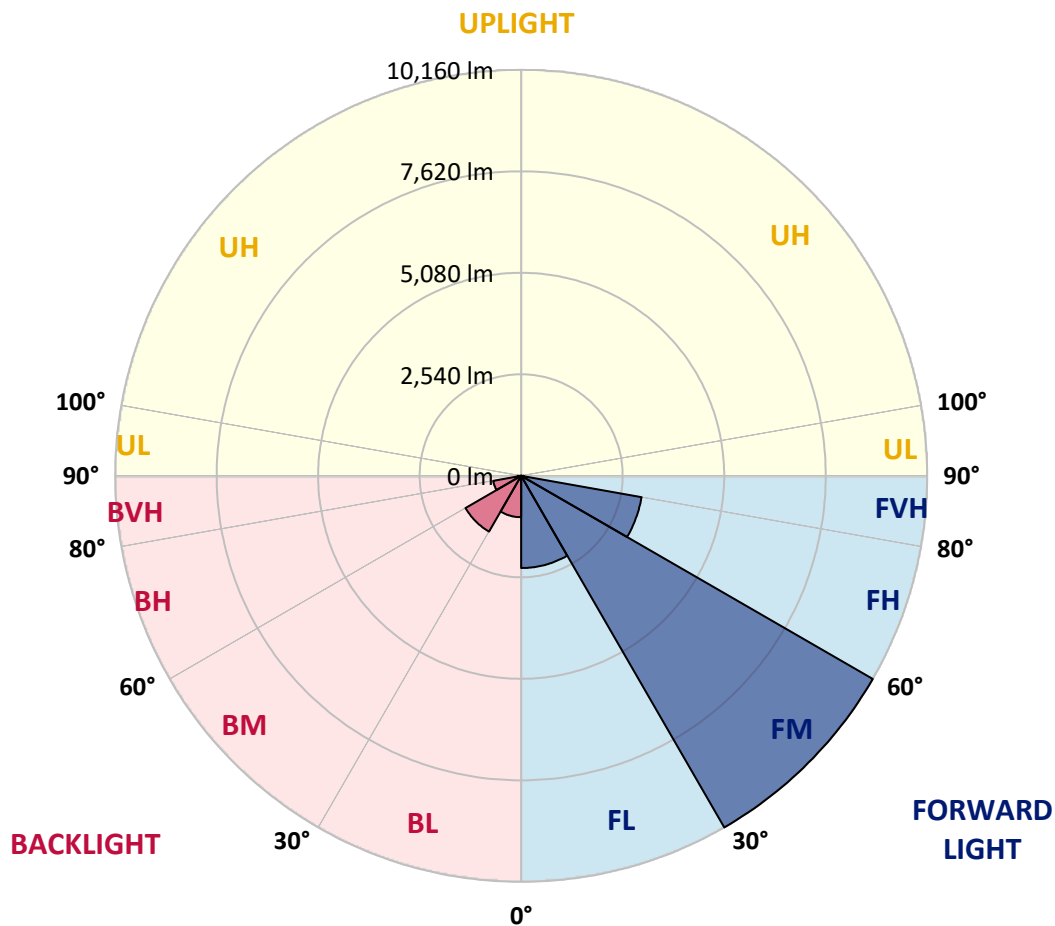
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2307.3	12.1			
FM	(30°-60°)	10160.2	53.4			
FH	(60°-80°)	3060.6	16.1			G2/5000
FVH	(80°-90°)	64.3	0.3			G1/100
BL	(0°-30°)	1035.3	5.4	B3/2500		
BM	(30°-60°)	1610.0	8.5	B2/2500		
BH	(60°-80°)	711.4	3.7	B2/1000		G2/1000
BVH	(80°-90°)	87.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4770.1	4770.1	4770.1	4770.1	4770.1	4770.1	4770.1	4770.1	4770.1	4770.1	4770.1
2.5°	5472.7	5468.8	5490.4	5416.6	5366.4	5298.5	5209.0	5094.8	4971.8	4841.9	4785.8
5°	5965.8	5931.3	5954.0	5898.8	5843.7	5741.4	5608.5	5422.5	5195.2	4936.4	4798.6
7.5°	5888.0	5864.4	5922.5	5971.7	6013.0	6000.2	5902.8	5707.9	5414.7	5038.7	4838.9
10°	5261.1	5234.6	5316.2	5486.5	5736.5	5954.0	6072.1	5951.0	5639.0	5150.9	4878.3
12.5°	4708.1	4695.3	4749.4	4887.2	5164.7	5582.0	6050.4	6163.6	5872.3	5283.8	4931.5
15°	4471.9	4456.1	4490.6	4560.4	4737.6	5126.3	5853.6	6309.2	6101.6	5437.3	5016.1
17.5°	4419.7	4402.0	4416.8	4453.2	4567.3	4863.5	5556.4	6381.1	6340.7	5608.5	5086.9
20°	4516.1	4501.4	4503.4	4501.4	4581.1	4816.3	5349.7	6353.5	6549.4	5766.0	5155.8
22.5°	4749.4	4724.8	4725.8	4673.6	4716.9	4899.0	5295.6	6279.7	6735.4	5903.8	5208.0
25°	5129.3	5085.0	5093.8	4961.0	4949.2	5084.0	5380.2	6222.6	6920.4	6014.0	5217.8
27.5°	5648.9	5598.7	5572.1	5374.3	5279.8	5346.8	5552.4	6242.3	7095.5	6109.4	5193.2
30°	6298.4	6237.4	6183.3	5902.8	5731.5	5706.9	5820.1	6372.2	7302.2	6209.8	5150.9
32.5°	7094.6	7023.7	6925.3	6553.3	6312.2	6183.3	6166.5	6603.5	7544.3	6337.8	5129.3
35°	8042.3	7949.8	7810.0	7328.8	7023.7	6760.0	6623.2	6937.1	7876.0	6530.7	5153.9
37.5°	9018.5	8914.2	8786.3	8213.5	7838.6	7449.8	7180.2	7389.8	8317.8	6792.4	5218.8
40°	9919.0	9801.9	9682.8	9173.0	8770.5	8302.1	7862.2	7962.6	8858.1	7105.4	5329.0
42.5°	10450.4	10363.8	10318.6	10043.0	9732.0	9256.7	8710.5	8641.6	9465.3	7465.6	5455.0
45°	10426.8	10391.4	10531.1	10645.3	10571.5	10307.7	9704.5	9392.5	10074.5	7777.5	5571.1
47.5°	9869.8	9893.4	10205.4	10847.0	11129.5	11267.2	10836.2	10129.6	10603.9	8010.8	5623.3
50°	8354.2	8373.9	9096.3	10479.9	11273.2	12049.6	11959.1	10849.0	11014.3	8153.5	5611.5
52.5°	7154.6	7167.4	7477.4	9391.5	10798.8	12443.3	12970.8	11527.1	11314.5	8192.8	5545.5
55°	5389.1	5433.4	5780.8	7368.1	9564.7	12131.3	13586.8	12225.8	11504.4	8196.8	5476.7
57.5°	3148.2	3196.4	3625.5	5001.3	7434.1	11043.9	13680.3	12845.8	11633.3	8165.3	5435.3
60°	1542.1	1562.8	1749.8	2628.6	4584.1	8948.6	12928.5	13145.9	11705.2	8148.6	5433.4
62.5°	1039.2	1036.3	1044.2	1297.1	2258.6	5749.3	11361.7	12620.4	11666.8	8084.6	5413.7
65°	893.6	882.8	853.2	910.3	1170.1	2629.6	8778.4	11051.7	11374.5	7924.2	5278.8
67.5°	772.5	773.5	774.5	756.8	835.5	1213.4	5364.5	8705.6	10325.4	7164.4	4759.2
70°	639.7	648.5	652.5	652.5	681.0	796.2	2290.1	5966.8	8144.6	5617.4	3833.2
72.5°	582.6	563.9	565.9	556.0	556.0	606.2	922.1	3382.4	5131.2	3160.0	2339.3
75°	475.3	487.1	489.1	482.2	459.6	462.5	547.2	1419.1	2195.6	1310.9	1156.3
77.5°	410.4	410.4	414.3	409.4	391.7	346.4	365.1	550.1	747.0	537.3	577.7
80°	329.7	328.7	345.4	355.3	327.7	255.9	233.2	304.1	331.7	236.2	300.2
82.5°	160.4	170.3	237.2	270.6	249.0	185.0	142.7	189.0	177.1	104.3	134.8
85°	93.5	88.6	106.3	150.6	142.7	102.3	68.9	98.4	92.5	53.1	54.1
87.5°	29.5	27.6	21.7	51.2	41.3	28.5	18.7	28.5	25.6	11.8	11.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4770.1	4770.1	4770.1	4770.1	4770.1	4770.1	4770.1	4770.1	4770.1	4770.1
2.5°	4715.9	4599.8	4484.7	4379.4	4315.4	4274.1	4232.7	4186.5	4168.8	4142.2
5°	4668.7	4444.3	4244.5	4072.3	3915.8	3792.8	3668.8	3568.4	3523.2	3553.7
7.5°	4641.1	4316.4	4008.3	3692.4	3388.3	3145.3	2933.7	2785.1	2718.2	2734.9
10°	4616.5	4171.7	3702.3	3203.3	2766.4	2465.2	2248.7	2135.6	2093.2	2102.1
12.5°	4593.9	4009.3	3333.2	2676.8	2212.3	2013.5	1951.5	1952.5	1960.4	1966.3
15°	4590.0	3813.5	2920.9	2216.2	1913.1	1900.3	1967.3	2009.6	2032.2	2039.1
17.5°	4584.1	3579.3	2500.7	1902.3	1840.3	1926.9	1988.9	2016.5	2034.2	2035.2
20°	4560.4	3282.1	2112.9	1752.7	1824.6	1899.4	1937.7	1959.4	1974.2	1979.1
22.5°	4487.6	2951.4	1810.8	1685.8	1761.6	1821.6	1866.9	1891.5	1900.3	1906.3
25°	4356.7	2581.4	1602.2	1621.8	1674.0	1749.8	1786.2	1791.1	1788.2	1797.0
27.5°	4185.5	2184.8	1472.3	1535.2	1602.2	1667.1	1686.8	1683.8	1677.9	1687.8
30°	3978.8	1828.5	1389.6	1437.8	1529.3	1588.4	1606.1	1599.2	1587.4	1598.2
32.5°	3760.3	1537.2	1321.7	1369.9	1469.3	1527.4	1545.1	1538.2	1529.3	1538.2
35°	3556.6	1333.5	1258.7	1324.6	1422.1	1479.1	1501.8	1502.8	1502.8	1513.6
37.5°	3369.6	1214.4	1206.5	1296.1	1389.6	1440.8	1473.2	1475.2	1432.9	1435.8
40°	3196.4	1164.2	1182.9	1277.4	1358.1	1407.3	1409.3	1299.0	1221.3	1219.3
42.5°	3054.7	1154.4	1189.8	1275.4	1335.5	1337.4	1198.7	1113.0	1091.4	1092.4
45°	2921.9	1151.4	1205.6	1275.4	1302.0	1155.4	1061.9	1039.2	1041.2	1049.1
47.5°	2773.3	1139.6	1208.5	1257.7	1205.6	1027.4	999.9	990.0	986.1	988.1
50°	2610.9	1097.3	1171.1	1222.3	1040.2	972.3	937.9	934.9	939.8	942.8
52.5°	2439.6	1028.4	1107.1	1158.3	964.4	924.1	885.7	892.6	914.3	921.1
55°	2327.5	947.7	1022.5	1030.4	911.3	878.8	846.3	862.1	902.4	915.2
57.5°	2297.9	862.1	926.1	917.2	843.4	839.5	819.8	833.6	884.7	903.4
60°	2289.1	785.3	831.6	824.7	777.5	796.2	791.2	798.1	815.8	821.7
62.5°	2220.2	724.3	747.0	737.1	718.4	750.9	762.7	747.9	761.7	768.6
65°	2045.0	675.1	664.3	657.4	665.3	694.8	718.4	688.9	701.7	721.4
67.5°	1755.7	608.2	578.7	586.5	611.1	626.9	657.4	623.9	634.8	668.2
70°	1420.1	523.6	497.0	519.6	543.2	575.7	580.6	558.0	583.6	621.0
72.5°	1004.8	437.9	419.2	465.5	473.4	515.7	504.9	494.0	529.5	542.3
75°	696.8	353.3	342.5	377.9	406.4	442.9	435.0	447.8	522.6	528.5
77.5°	440.9	274.6	267.7	290.3	329.7	370.0	382.8	528.5	892.6	928.0
80°	255.9	204.7	196.8	214.5	249.0	286.4	369.0	648.5	588.5	581.6
82.5°	142.7	140.7	130.9	135.8	166.3	206.7	521.6	456.6	371.0	382.8
85°	66.9	82.7	70.9	67.9	93.5	242.1	348.4	260.8	173.2	169.3
87.5°	17.7	15.7	15.7	17.7	39.4	208.6	138.8	111.2	65.9	64.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)