

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: P949474

Luminaire Tested: **GALN-SB4B-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949474
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-SB4B-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18961 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 147
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

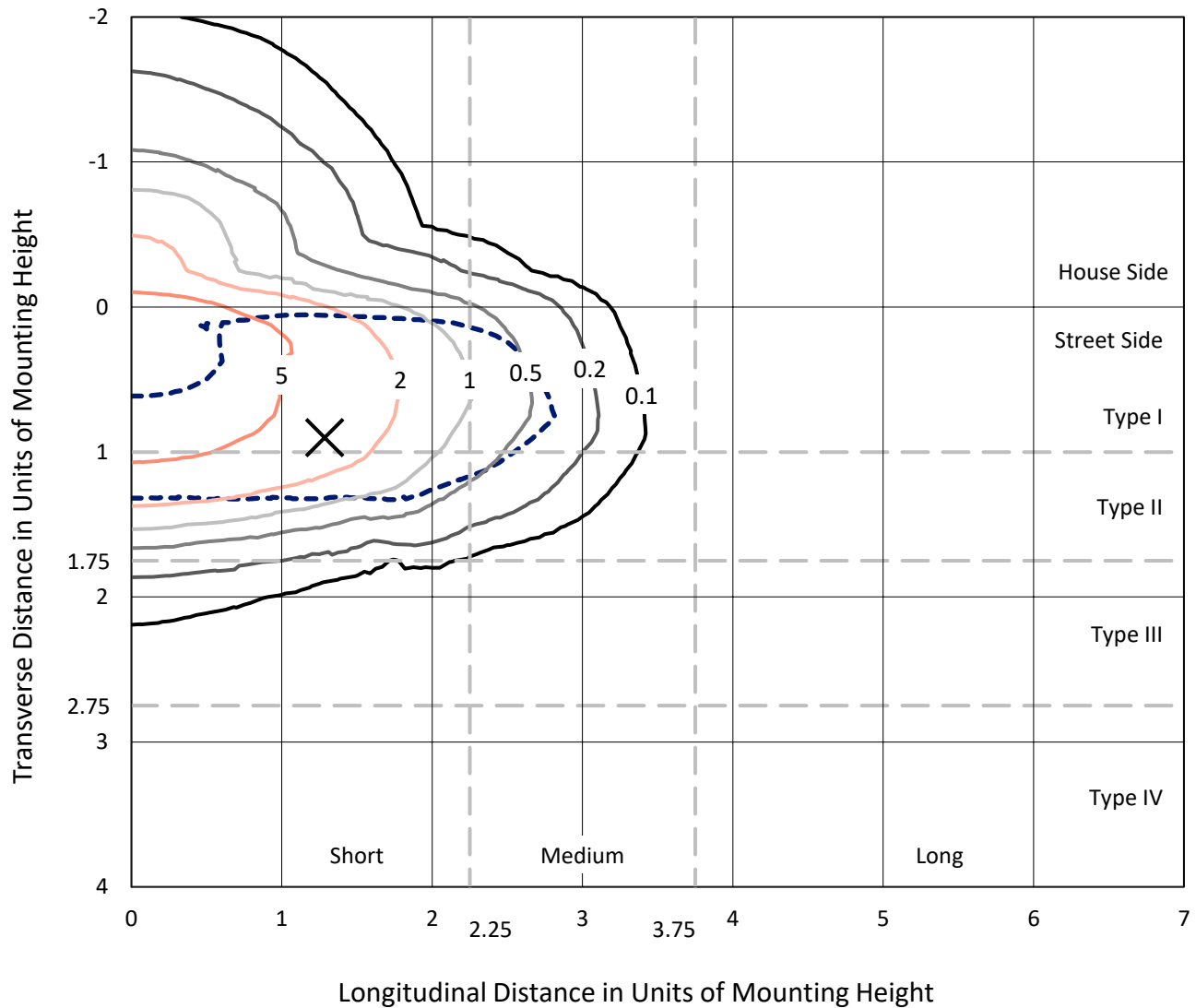


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

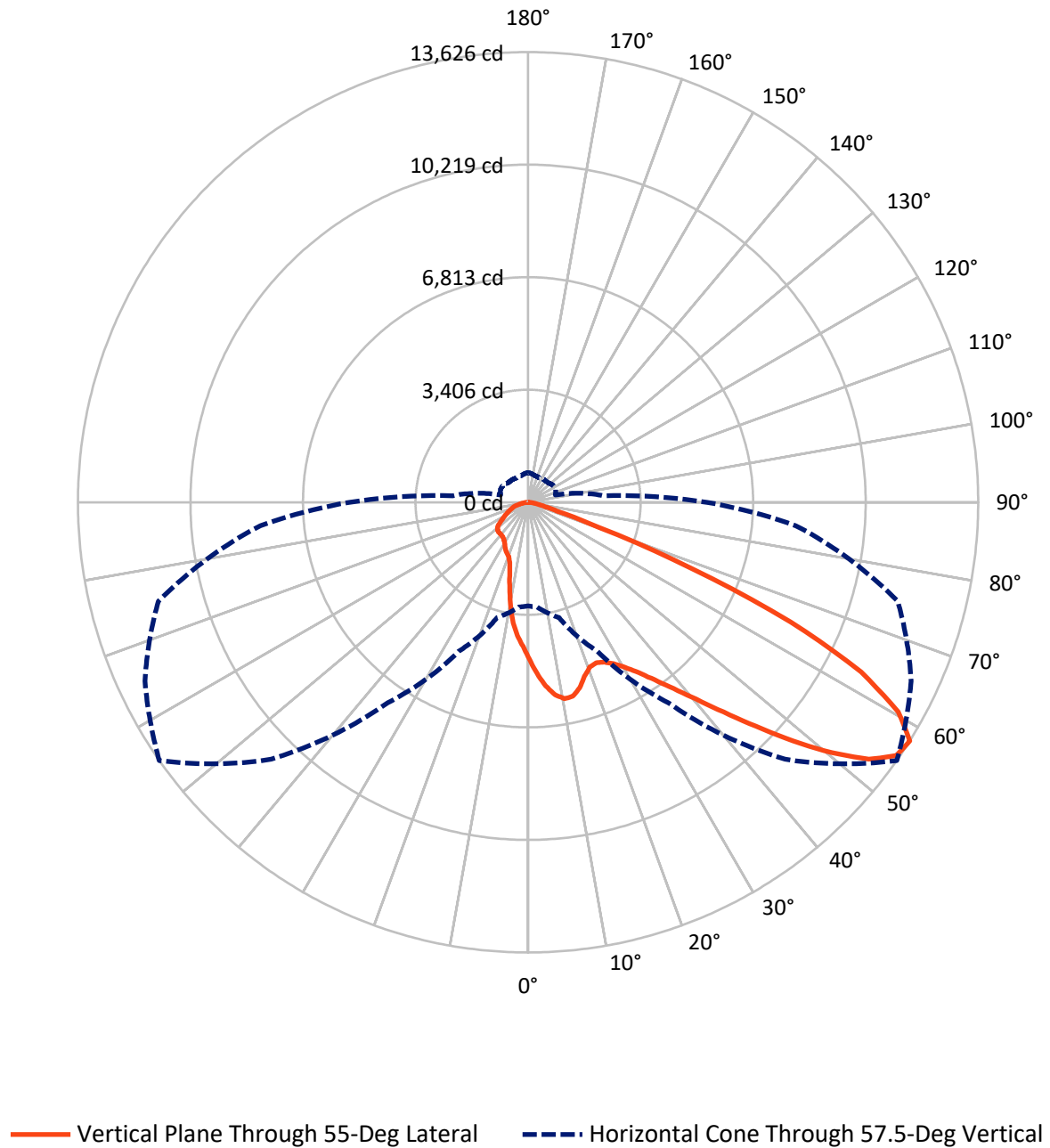


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3430.9	0.0	3430.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15530.1	0.0	15530.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	18961.0	0.0	18961.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.9	2.3
10°-20°	1112.8	5.9
20°-30°	1775.7	9.4
30°-40°	2811.3	14.8
40°-50°	4303.0	22.7
50°-60°	4608.9	24.3
60°-70°	2899.5	15.3
70°-80°	857.4	4.5
80°-90°	151.6	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°	18961.0	100.0
0°-180°	18961.0	100.0

Coefficient of Utilization



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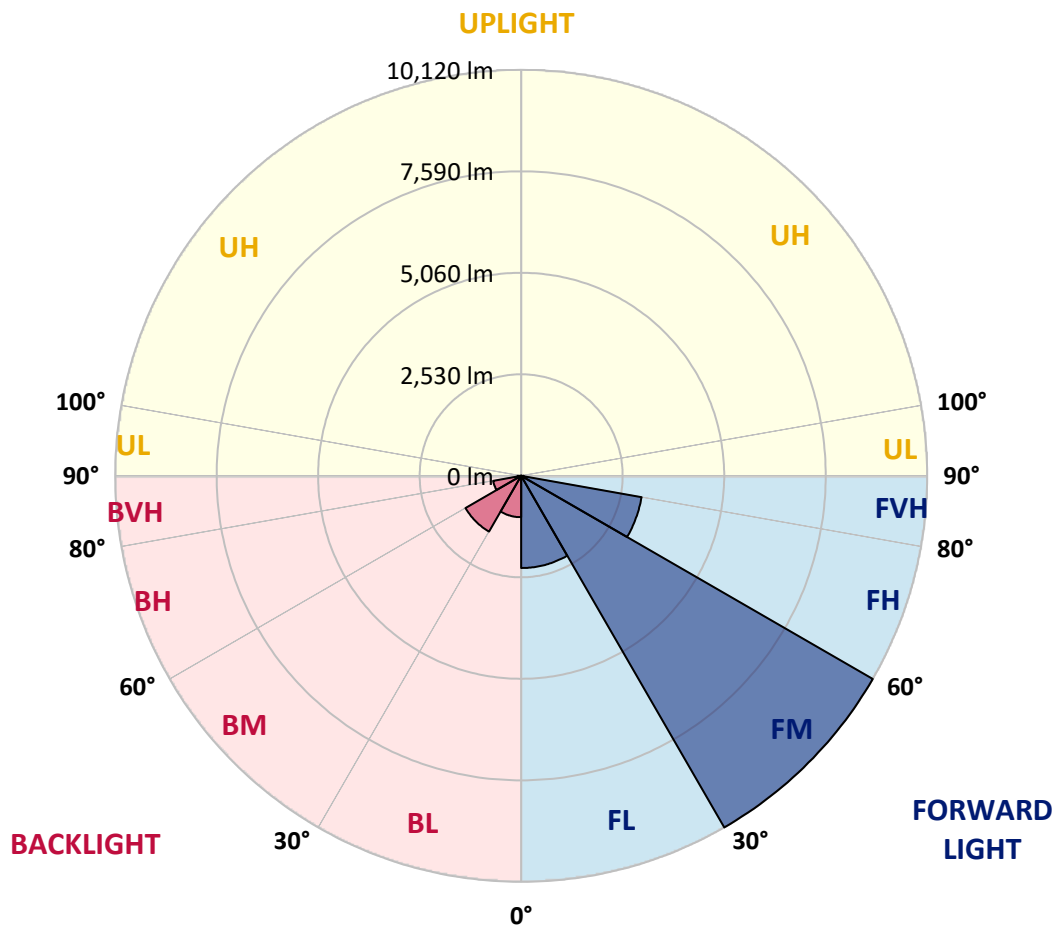
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2298.1	12.1			
FM	(30°-60°)	10119.6	53.4			
FH	(60°-80°)	3048.4	16.1			G2/5000
FVH	(80°-90°)	64.1	0.3			G1/100
BL	(0°-30°)	1031.2	5.4	B3/2500		
BM	(30°-60°)	1603.6	8.5	B2/2500		
BH	(60°-80°)	708.6	3.7	B2/1000		G2/1000
BVH	(80°-90°)	87.6	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°	4751.0	4751.0	4751.0	4751.0	4751.0	4751.0	4751.0	4751.0	4751.0	4751.0	4751.0
2.5°	5450.9	5447.0	5468.5	5395.0	5345.0	5277.4	5188.2	5074.5	4952.0	4822.6	4766.7
5°	5941.9	5907.6	5930.2	5875.3	5820.4	5718.5	5586.1	5400.9	5174.5	4916.7	4779.4
7.5°	5864.5	5841.0	5898.8	5947.8	5989.0	5976.3	5879.2	5685.1	5393.0	5018.6	4819.6
10°	5240.1	5213.7	5295.0	5464.6	5713.6	5930.2	6047.8	5927.2	5616.5	5130.3	4858.8
12.5°	4689.3	4676.5	4730.4	4867.7	5144.1	5559.7	6026.2	6139.0	5848.8	5262.7	4911.8
15°	4454.0	4438.3	4472.6	4542.2	4718.7	5105.8	5830.2	6284.0	6077.2	5415.6	4996.1
17.5°	4402.1	4384.4	4399.1	4435.4	4549.1	4844.1	5534.2	6355.6	6315.4	5586.1	5066.6
20°	4498.1	4483.4	4485.4	4483.4	4562.8	4797.1	5328.3	6328.1	6523.2	5743.0	5135.2
22.5°	4730.4	4705.9	4706.9	4655.0	4698.1	4879.4	5274.4	6254.6	6708.5	5880.2	5187.2
25°	5108.8	5064.7	5073.5	4941.2	4929.4	5063.7	5358.7	6197.8	6892.7	5990.0	5197.0
27.5°	5626.3	5576.3	5549.9	5352.9	5258.8	5325.4	5530.3	6217.4	7067.2	6085.1	5172.5
30°	6273.3	6212.5	6158.6	5879.2	5708.7	5684.2	5796.9	6346.8	7273.1	6185.0	5130.3
32.5°	7066.2	6995.7	6897.6	6527.1	6287.0	6158.6	6141.9	6577.1	7514.2	6312.5	5108.8
35°	8010.2	7918.0	7778.8	7299.5	6995.7	6733.0	6596.7	6909.4	7844.5	6504.6	5133.3
37.5°	8982.5	8878.6	8751.2	8180.7	7807.3	7420.1	7151.5	7360.3	8284.6	6765.3	5198.0
40°	9879.4	9762.8	9644.2	9136.4	8735.5	8268.9	7830.8	7930.8	8822.7	7077.0	5307.8
42.5°	10408.7	10322.4	10277.4	10002.9	9693.2	9219.7	8675.7	8607.1	9427.5	7435.8	5433.2
45°	10385.2	10349.9	10489.1	10602.8	10529.3	10266.6	9665.7	9355.0	10034.3	7746.5	5548.9
47.5°	9830.4	9853.9	10164.6	10803.7	11085.0	11222.3	10792.9	10089.2	10561.6	7978.8	5600.8
50°	8320.9	8340.5	9060.0	10438.1	11228.1	12001.5	11911.3	10805.7	10970.4	8120.9	5589.1
52.5°	7126.0	7138.8	7447.5	9354.0	10755.7	12393.6	12919.0	11481.0	11269.3	8160.1	5523.4
55°	5367.6	5411.7	5757.7	7338.7	9526.5	12082.9	13532.6	12177.0	11458.5	8164.1	5454.8
57.5°	3135.6	3183.7	3611.0	4981.4	7404.4	10999.8	13625.7	12794.5	11586.9	8132.7	5413.6
60°	1536.0	1556.6	1742.8	2618.1	4565.8	8912.9	12876.8	13093.5	11658.5	8116.0	5411.7
62.5°	1035.1	1032.1	1040.0	1291.9	2249.6	5726.3	11316.4	12570.0	11620.2	8052.3	5392.1
65°	890.0	879.2	849.8	906.7	1165.5	2619.1	8743.4	11007.6	11329.1	7892.5	5257.8
67.5°	769.5	770.4	771.4	753.8	832.2	1208.6	5343.0	8670.8	10284.2	7135.8	4740.2
70°	637.1	645.9	649.9	649.9	678.3	793.0	2280.9	5942.9	8112.1	5595.0	3817.9
72.5°	580.3	561.7	563.6	553.8	553.8	603.8	918.4	3368.9	5110.7	3147.4	2329.9
75°	473.4	485.2	487.2	480.3	457.8	460.7	545.0	1413.4	2186.8	1305.6	1151.7
77.5°	408.7	408.7	412.7	407.8	390.1	345.0	363.7	547.9	744.0	535.2	575.4
80°	328.4	327.4	344.0	353.9	326.4	254.9	332.3	302.9	330.3	235.2	299.0
82.5°	159.8	169.6	236.2	269.6	248.0	184.3	142.1	188.2	176.4	103.9	134.3
85°	93.1	88.2	105.9	150.0	142.1	101.9	68.6	98.0	92.1	52.9	53.9
87.5°	29.4	27.4	21.6	51.0	41.2	28.4	18.6	28.4	25.5	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°	4751.0	4751.0	4751.0	4751.0	4751.0	4751.0	4751.0	4751.0	4751.0	4751.0
2.5°	4697.1	4581.4	4466.8	4361.9	4298.2	4257.0	4215.8	4169.8	4152.1	4125.6
5°	4650.1	4426.6	4227.6	4056.1	3900.2	3777.7	3654.2	3554.2	3509.1	3539.5
7.5°	4622.6	4299.1	3992.3	3677.7	3374.8	3132.7	2922.0	2774.0	2707.3	2724.0
10°	4598.1	4155.1	3687.5	3190.5	2755.3	2455.4	2239.7	2127.0	2084.9	2093.7
12.5°	4575.6	3993.3	3319.9	2666.1	2203.5	2005.5	1943.7	1944.7	1952.6	1958.4
15°	4571.6	3798.3	2909.2	2207.4	1905.5	1892.8	1959.4	2001.6	2024.1	2031.0
17.5°	4565.8	3565.0	2490.7	1894.7	1833.0	1919.2	1981.0	2008.4	2026.1	2027.0
20°	4542.2	3269.0	2104.5	1745.7	1817.3	1891.8	1930.0	1951.6	1966.3	1971.2
22.5°	4469.7	2939.6	1803.6	1679.1	1754.6	1814.3	1859.4	1883.9	1892.8	1898.6
25°	4339.3	2571.1	1595.8	1615.4	1667.3	1742.8	1779.1	1784.0	1781.0	1789.8
27.5°	4168.8	2176.0	1466.4	1529.1	1595.8	1660.5	1680.1	1677.1	1671.2	1681.0
30°	3962.9	1821.2	1384.0	1432.1	1523.2	1582.0	1599.7	1592.8	1581.1	1591.8
32.5°	3745.3	1531.1	1316.4	1364.4	1463.4	1521.3	1538.9	1532.0	1523.2	1532.0
35°	3542.4	1328.2	1253.7	1319.3	1416.4	1473.2	1495.8	1496.8	1496.8	1507.5
37.5°	3356.2	1209.6	1201.7	1290.9	1384.0	1435.0	1467.4	1469.3	1427.2	1430.1
40°	3183.7	1159.6	1178.2	1272.3	1352.7	1401.7	1403.6	1293.9	1216.4	1214.5
42.5°	3042.5	1149.8	1185.1	1270.3	1330.1	1332.1	1193.9	1108.6	1087.0	1088.0
45°	2910.2	1146.8	1200.7	1270.3	1296.8	1150.8	1057.6	1035.1	1037.0	1044.9
47.5°	2762.2	1135.1	1203.7	1252.7	1200.7	1023.3	995.9	986.1	982.2	984.1
50°	2600.5	1092.9	1166.4	1217.4	1036.1	968.4	934.1	931.2	936.1	939.0
52.5°	2429.9	1024.3	1102.7	1153.7	960.6	920.4	882.2	889.0	910.6	917.5
55°	2318.2	943.9	1018.4	1026.3	907.7	875.3	843.0	858.7	898.8	911.6
57.5°	2288.8	858.7	922.4	913.5	840.0	836.1	816.5	830.2	881.2	899.8
60°	2279.9	782.2	828.3	821.4	774.4	793.0	788.1	794.9	812.6	818.5
62.5°	2211.3	721.4	744.0	734.2	715.5	747.9	759.7	744.9	758.7	765.5
65°	2036.8	672.4	661.6	654.8	662.6	692.0	715.5	686.1	698.9	718.5
67.5°	1748.7	605.8	576.4	584.2	608.7	624.4	654.8	621.4	632.2	665.6
70°	1414.4	521.5	495.0	517.5	541.1	573.4	578.3	555.8	581.3	618.5
72.5°	1000.8	436.2	417.6	463.6	471.5	513.6	502.8	492.1	527.3	540.1
75°	694.0	351.9	341.1	376.4	404.8	441.1	433.2	446.0	520.5	526.4
77.5°	439.1	273.5	266.6	289.2	328.4	368.6	381.3	526.4	889.0	924.3
80°	254.9	203.9	196.0	213.7	248.0	285.2	367.6	645.9	586.2	579.3
82.5°	142.1	140.2	130.4	135.3	165.7	205.8	519.5	454.8	369.5	381.3
85°	66.7	82.3	70.6	67.6	93.1	241.1	347.0	259.8	172.5	168.6
87.5°	17.6	15.7	15.7	17.6	39.2	207.8	138.2	110.8	65.7	63.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)