

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: P949159

Luminaire Tested: **GALN-SB4A-730-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949159
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-SB4A-730-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18284 lumens
Efficiency: N/A
Efficacy: 160.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 114
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



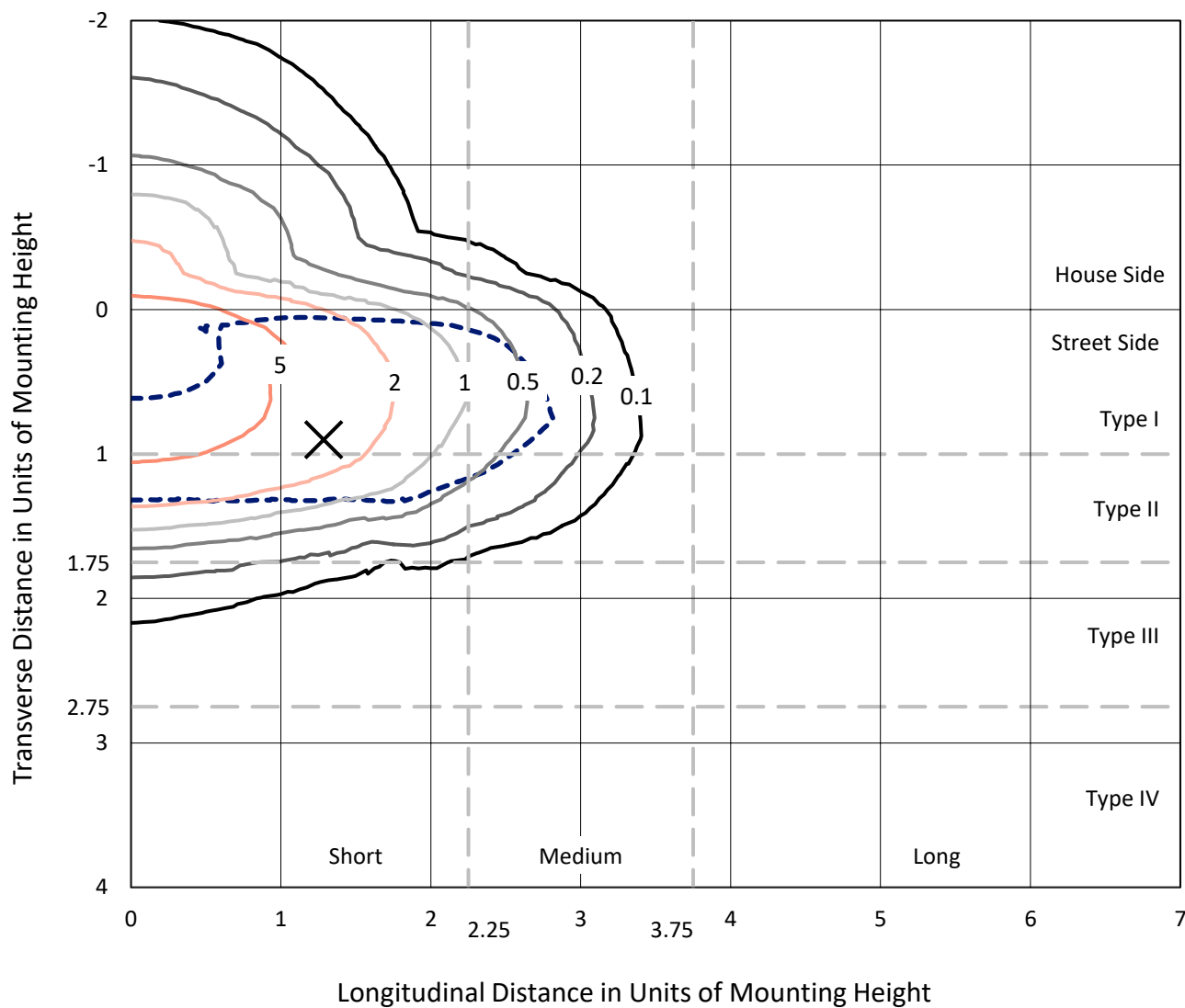
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Iso-Footcandle Lines of Horizontal Illumination

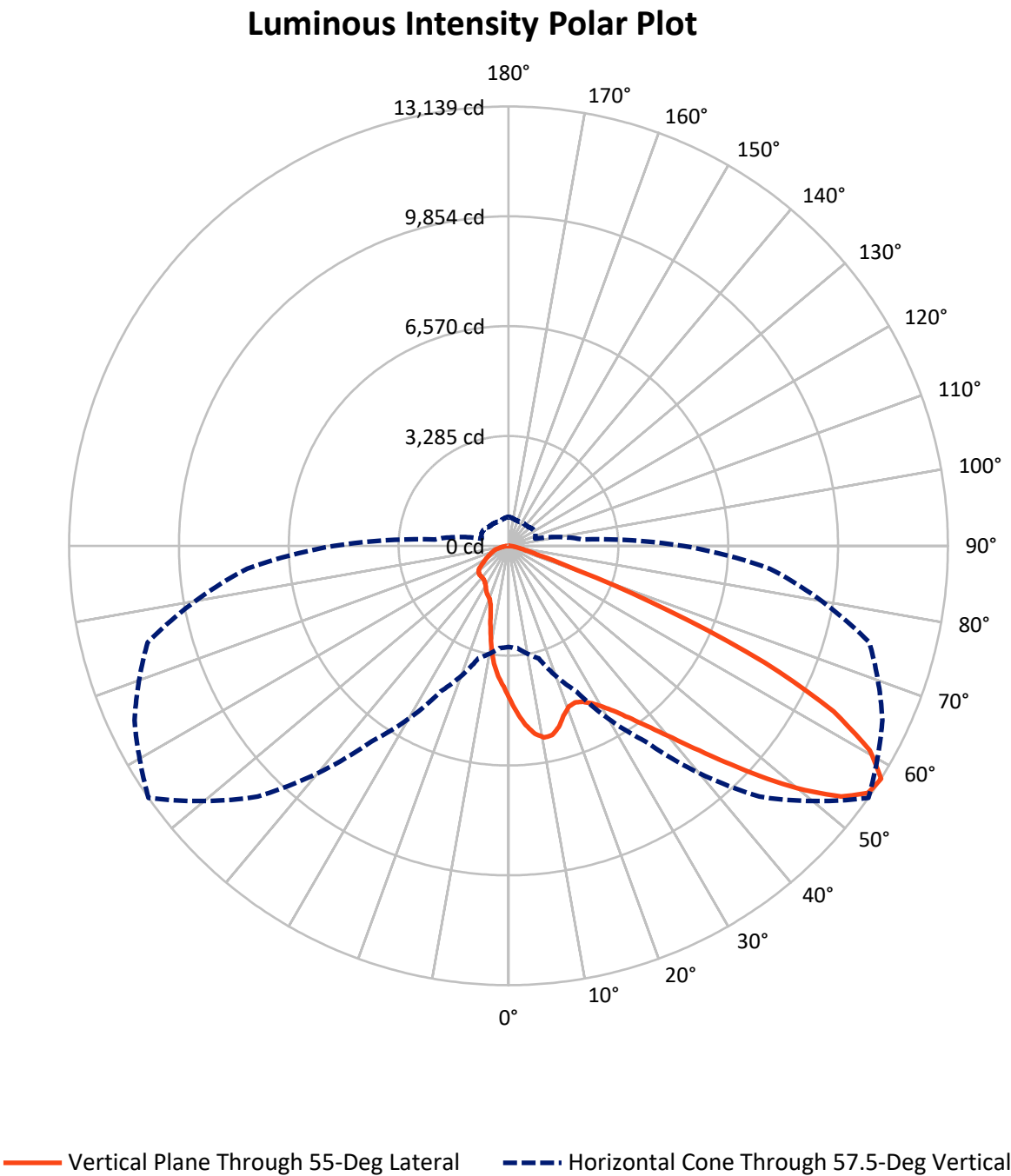
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3308.4	0.0	3308.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14975.6	0.0	14975.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	18284.0	0.0	18284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.1	2.3
10°-20°	1073.0	5.9
20°-30°	1712.3	9.4
30°-40°	2710.9	14.8
40°-50°	4149.4	22.7
50°-60°	4444.3	24.3
60°-70°	2796.0	15.3
70°-80°	826.8	4.5
80°-90°	146.2	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°	18284.0	100.0
0°-180°	18284.0	100.0

Coefficient of Utilization



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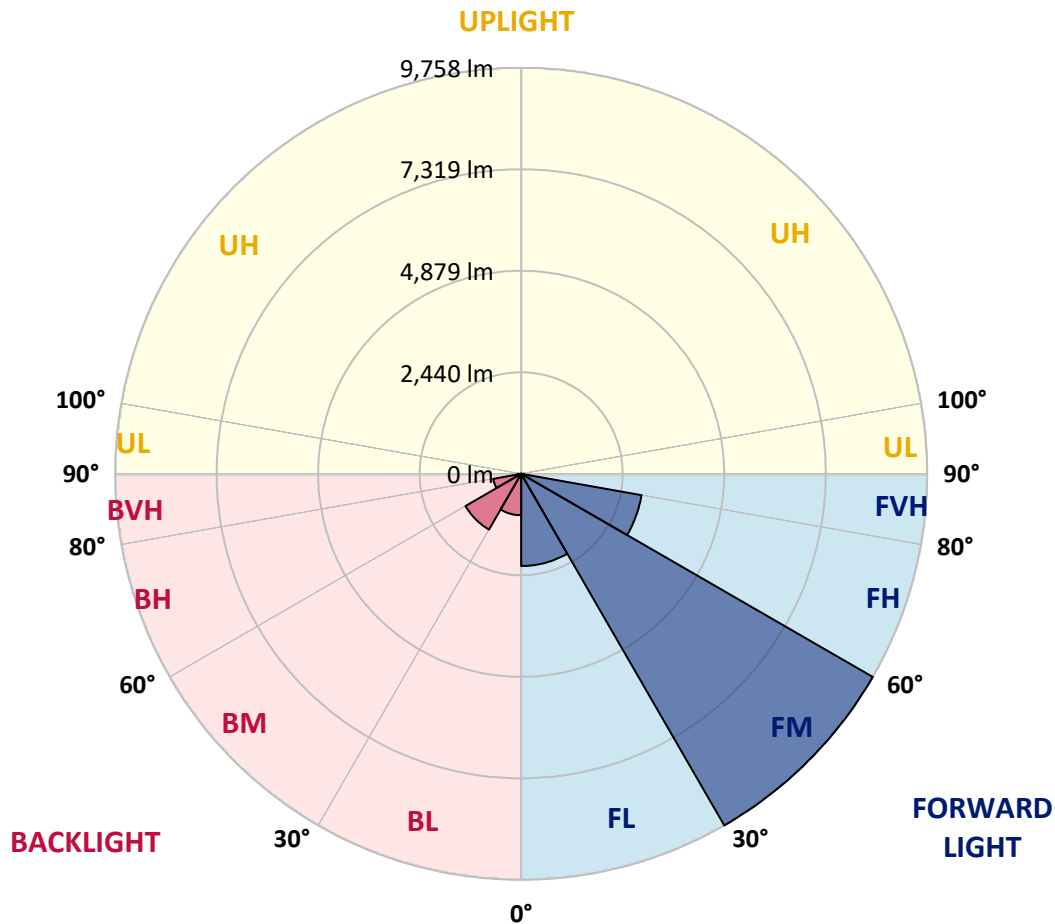
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2216.0	12.1			
FM	(30°-60°)	9758.3	53.4			
FH	(60°-80°)	2939.5	16.1			G2/5000
FVH	(80°-90°)	61.8	0.3			G1/100
BL	(0°-30°)	994.4	5.4	B2/1000		
BM	(30°-60°)	1546.3	8.5	B2/2500		
BH	(60°-80°)	683.3	3.7	B2/1000		G2/1000
BVH	(80°-90°)	84.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4581.4	4581.4	4581.4	4581.4	4581.4	4581.4	4581.4	4581.4	4581.4	4581.4	4581.4
2.5°	5256.2	5252.5	5273.3	5202.4	5154.2	5088.9	5002.9	4893.3	4775.1	4650.4	4596.5
5°	5729.8	5696.7	5718.5	5665.5	5612.6	5514.3	5386.7	5208.0	4989.7	4741.1	4608.8
7.5°	5655.1	5632.4	5688.2	5735.5	5775.2	5762.9	5669.3	5482.2	5200.5	4839.4	4647.5
10°	5053.0	5027.5	5106.0	5269.5	5509.6	5718.5	5831.9	5715.6	5416.0	4947.2	4685.3
12.5°	4521.8	4509.5	4561.5	4693.9	4960.4	5361.2	5811.1	5919.8	5640.0	5074.8	4736.4
15°	4295.0	4279.9	4312.9	4380.0	4550.2	4923.5	5622.0	6059.7	5860.2	5222.2	4817.7
17.5°	4244.9	4227.9	4242.1	4277.0	4386.7	4671.2	5336.6	6128.7	6089.9	5386.7	4885.7
20°	4337.5	4323.3	4325.2	4323.3	4399.9	4625.8	5138.1	6102.2	6290.3	5537.9	4951.9
22.5°	4561.5	4537.9	4538.8	4488.7	4530.3	4705.2	5086.1	6031.3	6468.9	5670.2	5002.0
25°	4926.4	4883.8	4892.3	4764.7	4753.4	4882.9	5167.4	5976.5	6646.6	5776.1	5011.4
27.5°	5425.4	5377.2	5351.7	5161.7	5071.0	5135.3	5332.8	5995.4	6814.9	5867.8	4987.8
30°	6049.3	5990.7	5938.7	5669.3	5504.8	5481.2	5589.9	6120.2	7013.4	5964.2	4947.2
32.5°	6813.9	6745.9	6651.4	6294.1	6062.5	5938.7	5922.6	6342.3	7245.9	6087.1	4926.4
35°	7724.2	7635.3	7501.1	7038.9	6745.9	6492.6	6361.2	6662.7	7564.4	6272.3	4950.0
37.5°	8661.8	8561.6	8438.7	7888.6	7528.5	7155.2	6896.2	7097.5	7988.8	6523.8	5012.4
40°	9526.7	9414.2	9299.8	8810.2	8423.6	7973.7	7551.2	7647.6	8507.7	6824.3	5118.2
42.5°	10037.1	9953.9	9910.4	9645.8	9347.1	8890.5	8366.0	8299.8	9090.9	7170.3	5239.2
45°	10014.4	9980.4	10114.6	10224.2	10153.3	9900.0	9320.6	9021.0	9676.0	7469.9	5350.8
47.5°	9479.4	9502.1	9801.7	10418.0	10689.2	10821.6	10407.6	9728.9	10184.5	7693.9	5400.9
50°	8023.8	8042.7	8736.5	10065.4	10827.2	11573.0	11486.1	10419.9	10578.7	7831.0	5389.5
52.5°	6871.6	6883.9	7181.6	9020.0	10371.7	11951.1	12457.7	11071.1	10866.9	7868.8	5326.2
55°	5175.9	5218.4	5552.1	7076.7	9186.4	11651.5	13049.4	11742.2	11049.4	7872.6	5260.0
57.5°	3023.7	3070.0	3482.1	4803.5	7140.0	10607.0	13139.2	12337.7	11173.2	7842.3	5220.3
60°	1481.1	1501.0	1680.6	2524.6	4402.7	8594.7	12417.1	12626.0	11242.2	7826.2	5218.4
62.5°	998.1	995.3	1002.9	1245.8	2169.2	5521.8	10912.3	12121.2	11205.3	7764.8	5199.5
65°	858.2	847.8	819.5	874.3	1123.8	2525.6	8431.2	10614.6	10924.6	7610.7	5070.0
67.5°	742.0	742.9	743.9	726.9	802.5	1165.4	5152.3	8361.2	9917.0	6881.0	4571.0
70°	614.4	622.9	626.7	626.7	654.1	764.7	2199.5	5730.7	7822.5	5395.2	3681.5
72.5°	559.6	541.6	543.5	534.0	534.0	582.2	885.7	3248.6	4928.3	3035.0	2246.7
75°	456.5	467.9	469.8	463.1	441.4	444.2	525.5	1363.0	2108.7	1259.0	1110.6
77.5°	394.1	394.1	397.9	393.2	376.2	332.7	350.7	528.4	717.4	516.1	554.8
80°	316.6	315.7	331.8	341.2	314.8	245.8	224.0	292.1	318.5	226.8	288.3
82.5°	154.1	163.5	227.8	259.9	239.1	177.7	137.1	181.5	170.1	100.2	129.5
85°	89.8	85.1	102.1	144.6	137.1	98.3	66.2	94.5	88.8	51.0	52.0
87.5°	28.4	26.5	20.8	49.2	39.7	27.4	18.0	27.4	24.6	11.3	11.3
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°	4581.4	4581.4	4581.4	4581.4	4581.4	4581.4	4581.4	4581.4	4581.4	4581.4
2.5°	4529.4	4417.9	4307.3	4206.1	4144.7	4105.0	4065.3	4020.9	4003.9	3978.3
5°	4484.0	4268.5	4076.6	3911.2	3760.9	3642.8	3523.7	3427.3	3383.8	3413.1
7.5°	4457.6	4145.6	3849.8	3546.4	3254.3	3020.9	2817.6	2674.9	2610.6	2626.7
10°	4433.9	4006.7	3555.8	3076.6	2657.0	2367.7	2159.8	2051.1	2010.4	2018.9
12.5°	4412.2	3850.7	3201.4	2570.9	2124.8	1933.9	1874.3	1875.3	1882.8	1888.5
15°	4408.4	3662.6	2805.3	2128.6	1837.5	1825.2	1889.5	1930.1	1951.8	1958.5
17.5°	4402.7	3437.7	2401.7	1827.1	1767.5	1850.7	1910.2	1936.7	1953.7	1954.7
20°	4380.0	3152.2	2029.3	1683.4	1752.4	1824.2	1861.1	1881.9	1896.1	1900.8
22.5°	4310.1	2834.7	1739.2	1619.1	1691.9	1749.6	1793.0	1816.7	1825.2	1830.8
25°	4184.4	2479.3	1538.8	1557.7	1607.8	1680.6	1715.5	1720.3	1717.4	1725.9
27.5°	4019.9	2098.3	1414.0	1474.5	1538.8	1601.2	1620.1	1617.2	1611.6	1621.0
30°	3821.4	1756.2	1334.6	1380.9	1468.8	1525.6	1542.6	1535.9	1524.6	1535.0
32.5°	3611.6	1476.4	1269.4	1315.7	1411.2	1466.9	1484.0	1477.3	1468.8	1477.3
35°	3415.9	1280.7	1208.9	1272.2	1365.8	1420.6	1442.4	1443.3	1443.3	1453.7
37.5°	3236.4	1166.4	1158.8	1244.8	1334.6	1383.8	1415.0	1416.9	1376.2	1379.0
40°	3070.0	1118.2	1136.1	1226.9	1304.4	1351.6	1353.5	1247.7	1173.0	1171.1
42.5°	2933.9	1108.7	1142.7	1225.0	1282.6	1284.5	1151.3	1069.0	1048.2	1049.2
45°	2806.3	1105.9	1157.9	1225.0	1250.5	1109.7	1019.9	998.1	1000.0	1007.6
47.5°	2663.6	1094.5	1160.7	1208.0	1157.9	986.8	960.3	950.9	947.1	949.0
50°	2507.6	1053.9	1124.8	1173.9	999.1	933.9	900.8	897.9	902.7	905.5
52.5°	2343.1	987.7	1063.3	1112.5	926.3	887.5	850.7	857.3	878.1	884.7
55°	2235.4	910.2	982.1	989.6	875.3	844.1	812.9	828.0	866.7	879.0
57.5°	2207.0	828.0	889.4	880.9	810.0	806.3	787.4	800.6	849.7	867.7
60°	2198.5	754.3	798.7	792.1	746.7	764.7	759.9	766.6	783.6	789.2
62.5°	2132.4	695.7	717.4	708.0	690.0	721.2	732.5	718.4	731.6	738.2
65°	1964.1	648.4	638.0	631.4	639.0	667.3	690.0	661.6	673.9	692.8
67.5°	1686.2	584.1	555.8	563.3	587.0	602.1	631.4	599.3	609.7	641.8
70°	1363.9	502.8	477.3	499.1	521.7	552.9	557.7	535.9	560.5	596.4
72.5°	965.0	420.6	402.7	447.1	454.6	495.3	484.9	474.5	508.5	520.8
75°	669.2	339.3	328.9	363.0	390.4	425.3	417.8	430.1	501.9	507.6
77.5°	423.4	263.7	257.1	278.8	316.6	355.4	367.7	507.6	857.3	891.3
80°	245.8	196.6	189.0	206.1	239.1	275.1	354.4	622.9	565.2	558.6
82.5°	137.1	135.2	125.7	130.4	159.7	198.5	501.0	438.6	356.3	367.7
85°	64.3	79.4	68.1	65.2	89.8	232.5	334.6	250.5	166.4	162.6
87.5°	17.0	15.1	15.1	17.0	37.8	200.4	133.3	106.8	63.3	61.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)