

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: P948403

Luminaire Tested: **GALN-SB3C-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948403
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-SB3C-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18878 lumens
Efficiency: N/A
Efficacy: 126.6 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): 149.1
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

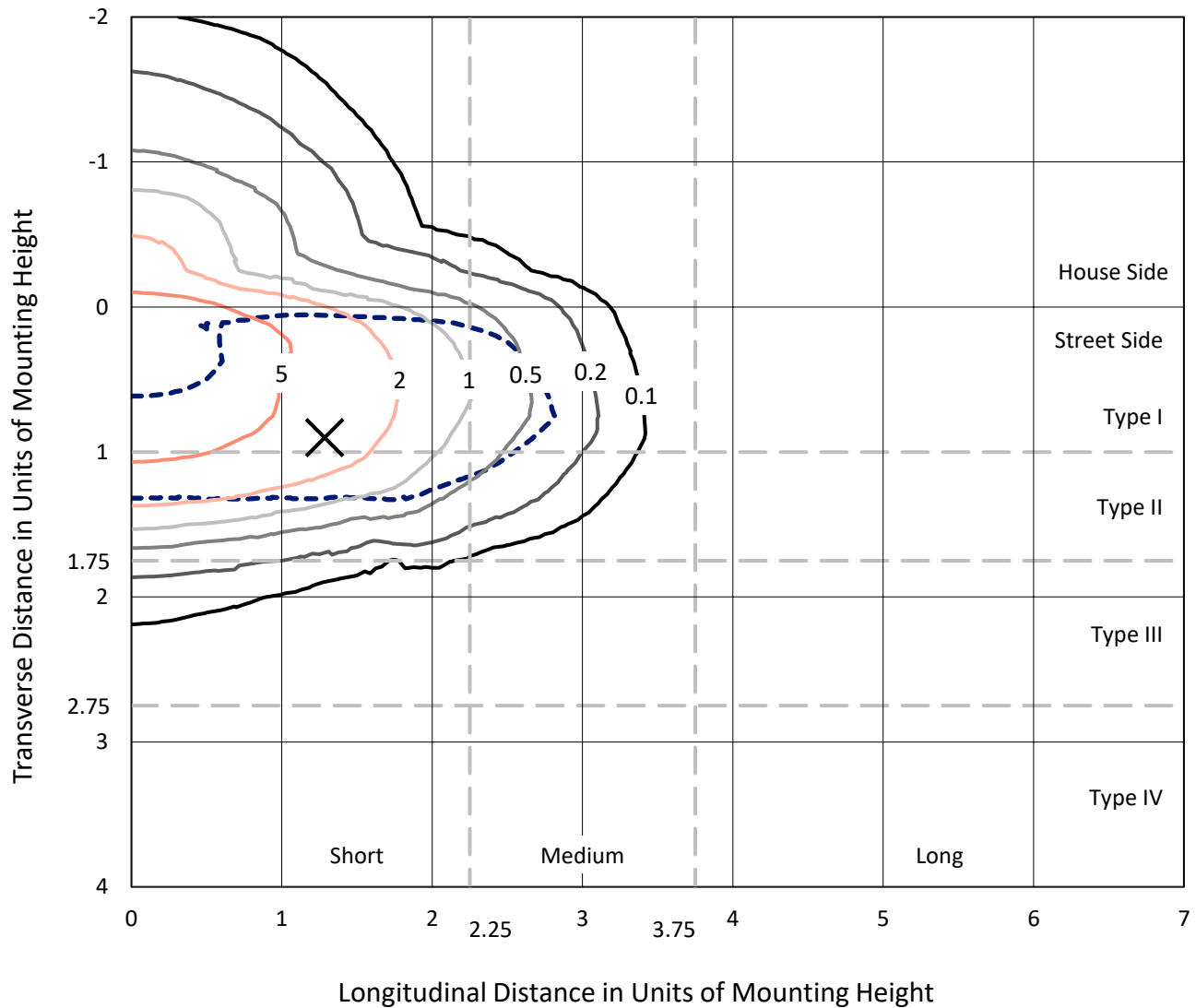


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

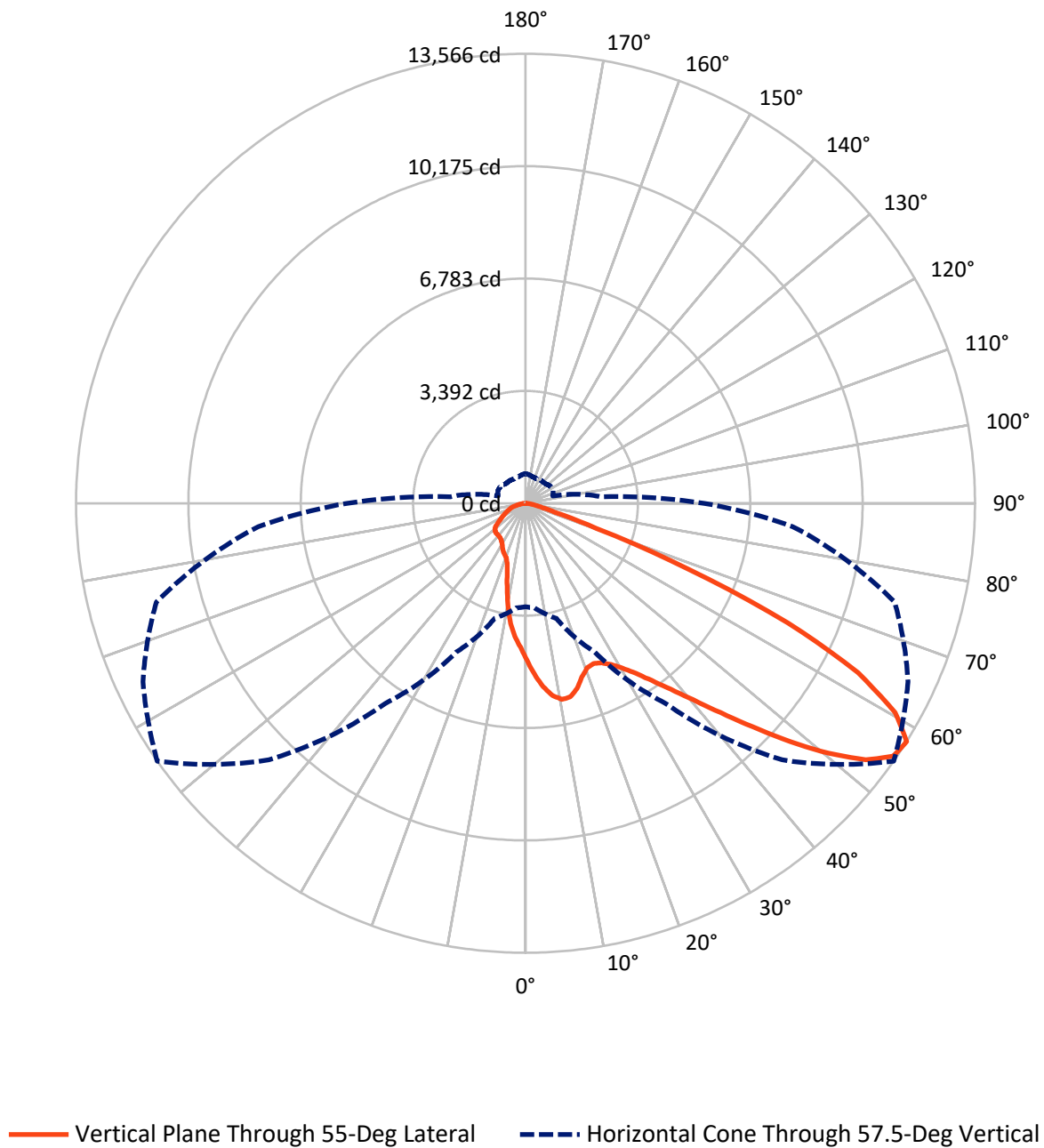


Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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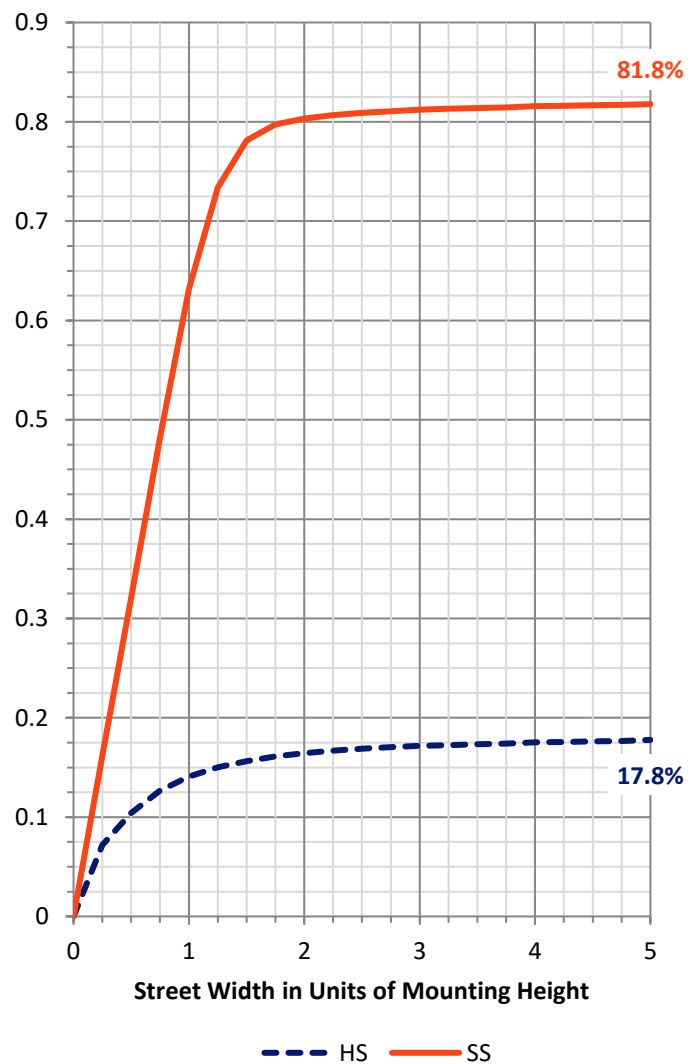
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3415.9	0.0	3415.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15462.1	0.0	15462.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	18878.0	0.0	18878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.9	2.3
10°-20°	1107.9	5.9
20°-30°	1767.9	9.4
30°-40°	2799.0	14.8
40°-50°	4284.1	22.7
50°-60°	4588.7	24.3
60°-70°	2886.8	15.3
70°-80°	853.7	4.5
80°-90°	150.9	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°	18878.0	100.0
0°-180°	18878.0	100.0

Coefficient of Utilization



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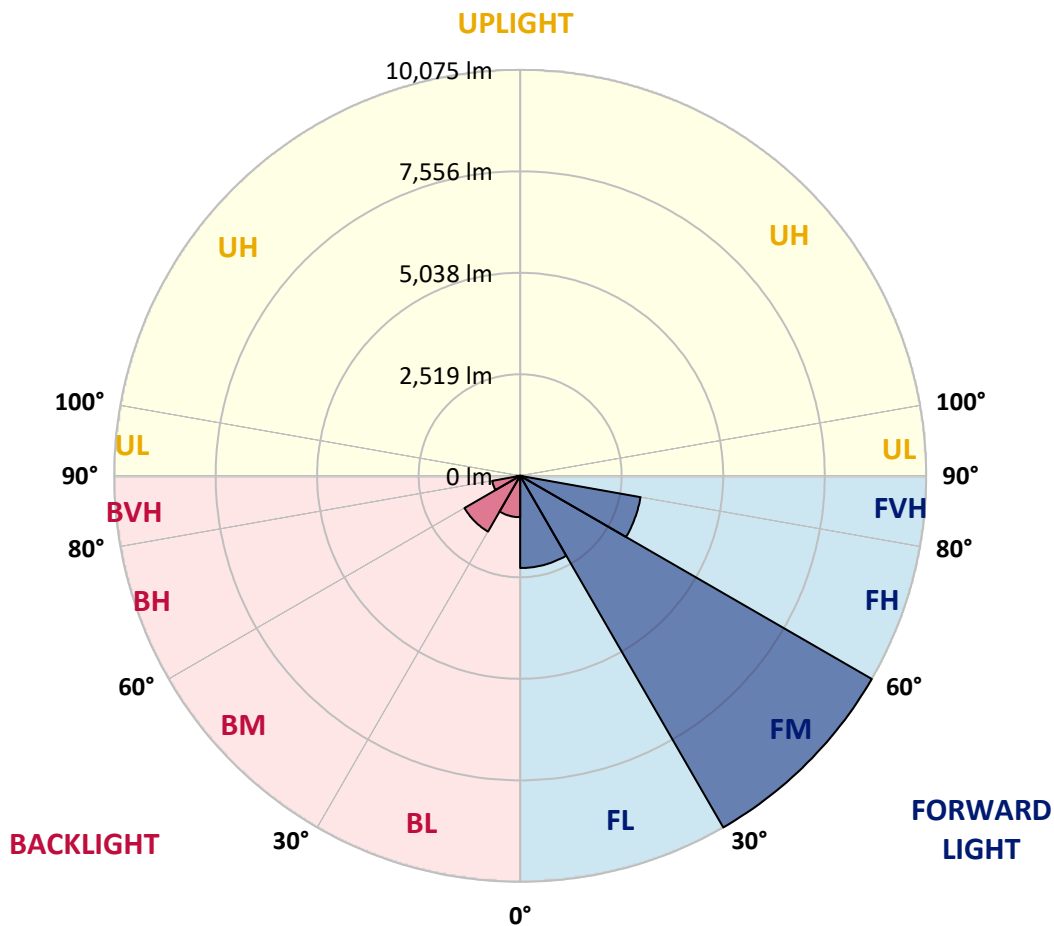
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2288.0	12.1			
FM	(30°-60°)	10075.3	53.4			
FH	(60°-80°)	3035.0	16.1			G2/5000
FVH	(80°-90°)	63.8	0.3			G1/100
BL	(0°-30°)	1026.7	5.4	B3/2500		
BM	(30°-60°)	1596.6	8.5	B2/2500		
BH	(60°-80°)	705.5	3.7	B2/1000		G2/1000
BVH	(80°-90°)	87.2	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°	4730.2	4730.2	4730.2	4730.2	4730.2	4730.2	4730.2	4730.2	4730.2	4730.2	4730.2
2.5°	5427.0	5423.1	5444.6	5371.4	5321.6	5254.3	5165.5	5052.3	4930.3	4801.5	4745.8
5°	5915.9	5881.8	5904.2	5849.6	5794.9	5693.4	5561.7	5377.2	5151.8	4895.1	4758.5
7.5°	5838.8	5815.4	5873.0	5921.8	5962.8	5950.1	5853.5	5660.3	5369.4	4996.6	4798.5
10°	5217.2	5190.8	5271.8	5440.7	5688.6	5904.2	6021.3	5901.3	5591.9	5107.9	4837.6
12.5°	4668.7	4656.0	4709.7	4846.3	5121.6	5535.3	5999.9	6112.1	5823.2	5239.6	4890.3
15°	4434.5	4418.9	4453.1	4522.3	4698.0	5083.5	5804.7	6256.5	6050.6	5391.9	4974.2
17.5°	4382.8	4365.2	4379.9	4416.0	4529.2	4822.9	5510.0	6327.8	6287.8	5561.7	5044.5
20°	4478.4	4463.8	4465.7	4463.8	4542.8	4776.1	5305.0	6300.4	6494.7	5717.8	5112.8
22.5°	4709.7	4685.3	4686.3	4634.6	4677.5	4858.1	5251.3	6227.3	6679.1	5854.5	5164.5
25°	5086.4	5042.5	5051.3	4919.5	4907.8	5041.5	5335.3	6170.7	6862.6	5963.8	5174.3
27.5°	5601.7	5551.9	5525.6	5329.4	5235.7	5302.1	5506.1	6190.2	7036.3	6058.4	5149.9
30°	6245.8	6185.3	6131.6	5853.5	5683.7	5659.3	5771.5	6319.0	7241.2	6158.0	5107.9
32.5°	7035.3	6965.0	6867.4	6498.6	6259.5	6131.6	6115.0	6548.3	7481.3	6284.8	5086.4
35°	7975.1	7883.4	7744.8	7267.6	6965.0	6703.5	6567.8	6879.2	7810.2	6476.1	5110.8
37.5°	8943.2	8839.8	8712.9	8144.9	7773.1	7387.6	7120.2	7328.1	8248.4	6735.7	5175.2
40°	9836.2	9720.0	9601.9	9096.4	8697.3	8232.7	7796.5	7896.1	8784.1	7046.0	5284.5
42.5°	10363.1	10277.3	10232.4	9959.1	9650.7	9179.4	8637.7	8569.4	9386.3	7403.2	5409.4
45°	10339.7	10304.6	10443.2	10556.4	10483.2	10221.6	9623.4	9314.0	9990.3	7712.6	5524.6
47.5°	9787.4	9810.8	10120.1	10756.4	11036.5	11173.1	10745.7	10045.0	10515.4	7943.9	5576.3
50°	8284.5	8304.0	9020.3	10392.4	11179.0	11949.0	11859.2	10758.4	10922.3	8085.4	5564.6
52.5°	7094.8	7107.5	7414.9	9313.1	10708.6	12339.3	12862.4	11430.8	11220.0	8124.4	5499.2
55°	5344.1	5388.0	5732.5	7306.6	9484.8	12030.0	13473.4	12123.7	11408.3	8128.3	5430.9
57.5°	3121.9	3169.7	3595.2	4959.6	7372.0	10951.6	13566.1	12738.5	11536.2	8097.1	5389.9
60°	1529.2	1549.7	1735.2	2606.6	4545.8	8873.9	12820.5	13036.1	11607.4	8080.5	5388.0
62.5°	1030.6	1027.6	1035.4	1286.2	2239.7	5701.2	11266.8	12515.0	11569.4	8017.1	5368.5
65°	886.1	875.4	846.1	902.7	1160.4	2607.6	8705.1	10959.4	11279.5	7858.0	5234.8
67.5°	766.1	767.1	768.0	750.5	828.5	1203.3	5319.7	8632.9	10239.2	7104.6	4719.5
70°	634.3	643.1	647.0	647.0	675.3	789.5	2270.9	5916.9	8076.6	5570.5	3801.2
72.5°	577.7	559.2	561.1	551.4	551.4	601.2	914.4	3354.2	5088.4	3133.6	2319.7
75°	471.4	483.1	485.0	478.2	455.7	458.7	542.6	1407.3	2177.2	1299.9	1146.7
77.5°	407.0	407.0	410.9	406.0	388.4	343.5	362.1	545.5	740.7	532.8	572.9
80°	326.9	326.0	342.5	352.3	325.0	253.7	231.3	301.6	328.9	234.2	297.7
82.5°	159.1	168.8	235.2	268.4	246.9	183.5	141.5	187.4	175.7	103.4	133.7
85°	92.7	87.8	105.4	149.3	141.5	101.5	68.3	97.6	91.7	52.7	53.7
87.5°	29.3	27.3	21.5	50.7	41.0	28.3	18.5	28.3	25.4	11.7	11.7
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°	4730.2	4730.2	4730.2	4730.2	4730.2	4730.2	4730.2	4730.2	4730.2	4730.2
2.5°	4676.5	4561.4	4447.2	4342.8	4279.3	4238.4	4197.4	4151.5	4133.9	4107.6
5°	4629.7	4407.2	4209.1	4038.3	3883.1	3761.1	3638.2	3538.6	3493.7	3524.0
7.5°	4602.4	4280.3	3974.9	3661.6	3360.0	3119.0	2909.2	2761.8	2695.5	2712.0
10°	4578.0	4136.9	3671.4	3176.6	2743.3	2444.6	2229.9	2117.7	2075.8	2084.5
12.5°	4555.5	3975.8	3305.4	2654.5	2193.8	1996.7	1935.2	1936.2	1944.0	1949.9
15°	4551.6	3781.6	2896.5	2197.7	1897.2	1884.5	1950.8	1992.8	2015.2	2022.1
17.5°	4545.8	3549.4	2479.8	1886.4	1824.9	1910.8	1972.3	1999.6	2017.2	2018.2
20°	4522.3	3254.6	2095.3	1738.1	1809.3	1883.5	1921.6	1943.0	1957.7	1962.5
22.5°	4450.1	2926.7	1795.7	1671.7	1746.9	1806.4	1851.3	1875.7	1884.5	1890.3
25°	4320.3	2559.8	1588.8	1608.3	1660.0	1735.2	1771.3	1776.1	1773.2	1782.0
27.5°	4150.5	2166.5	1460.0	1522.4	1588.8	1653.2	1672.7	1669.8	1663.9	1673.7
30°	3945.6	1813.2	1378.0	1425.8	1516.6	1575.1	1592.7	1585.8	1574.1	1584.9
32.5°	3728.9	1524.4	1310.6	1358.5	1457.0	1514.6	1532.2	1525.3	1516.6	1525.3
35°	3526.9	1322.4	1248.2	1313.6	1410.2	1466.8	1489.2	1490.2	1490.2	1500.9
37.5°	3341.5	1204.3	1196.5	1285.3	1378.0	1428.7	1460.9	1462.9	1420.9	1423.8
40°	3169.7	1154.5	1173.0	1266.7	1346.7	1395.5	1397.5	1288.2	1211.1	1209.1
42.5°	3029.2	1144.7	1179.9	1264.8	1324.3	1326.3	1188.7	1103.7	1082.3	1083.3
45°	2897.5	1141.8	1195.5	1264.8	1291.1	1145.7	1053.0	1030.6	1032.5	1040.3
47.5°	2750.1	1130.1	1198.4	1247.2	1195.5	1018.8	991.5	981.8	977.9	979.8
50°	2589.1	1088.1	1161.3	1212.1	1031.5	964.2	930.0	927.1	932.0	934.9
52.5°	2419.3	1019.8	1097.9	1148.6	956.4	916.4	878.3	885.1	906.6	913.4
55°	2308.0	939.8	1014.0	1021.8	903.7	871.5	839.3	854.9	894.9	907.6
57.5°	2278.7	854.9	918.3	909.5	836.4	832.4	812.9	826.6	877.3	895.9
60°	2270.0	778.8	824.6	817.8	771.0	789.5	784.6	791.5	809.0	814.9
62.5°	2201.6	718.3	740.7	731.0	712.4	744.6	756.3	741.7	755.4	762.2
65°	2027.9	669.5	658.7	651.9	659.7	689.0	712.4	683.1	695.8	715.3
67.5°	1741.0	603.1	573.8	581.6	606.0	621.7	651.9	618.7	629.5	662.6
70°	1408.2	519.2	492.8	515.3	538.7	570.9	575.8	553.3	578.7	615.8
72.5°	996.4	434.3	415.7	461.6	469.4	511.4	500.6	489.9	525.0	537.7
75°	690.9	350.4	339.6	374.7	403.0	439.2	431.4	444.0	518.2	524.1
77.5°	437.2	272.3	265.4	287.9	326.9	366.9	379.6	524.1	885.1	920.3
80°	253.7	203.0	195.2	212.7	246.9	284.0	366.0	643.1	583.6	576.8
82.5°	141.5	139.6	129.8	134.7	164.9	204.9	517.2	452.8	367.9	379.6
85°	66.4	82.0	70.3	67.3	92.7	240.1	345.5	258.6	171.8	167.9
87.5°	17.6	15.6	15.6	17.6	39.0	206.9	137.6	110.3	65.4	63.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)