

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: P956970

Luminaire Tested: **GALN-SB9C-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48046 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

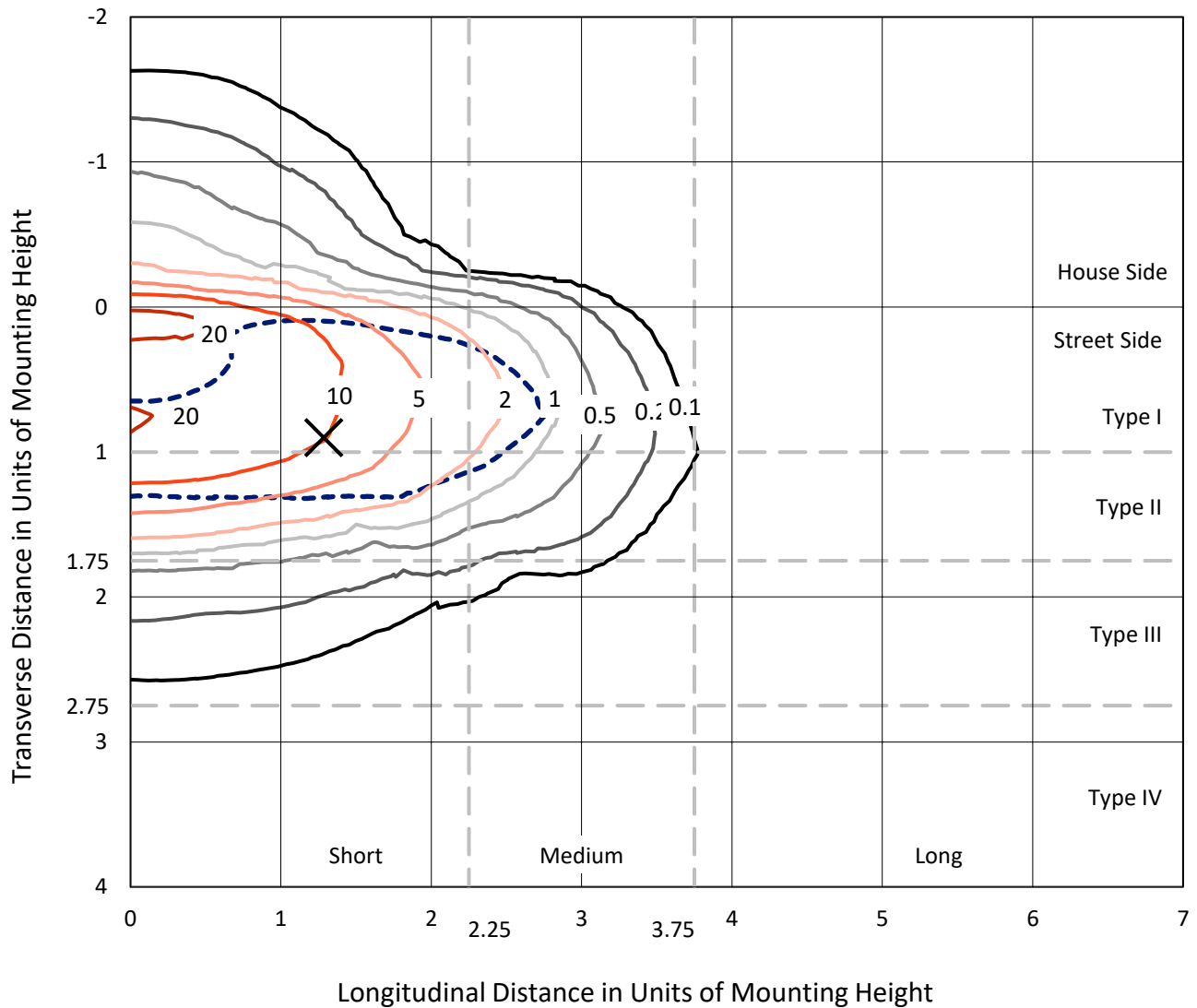
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

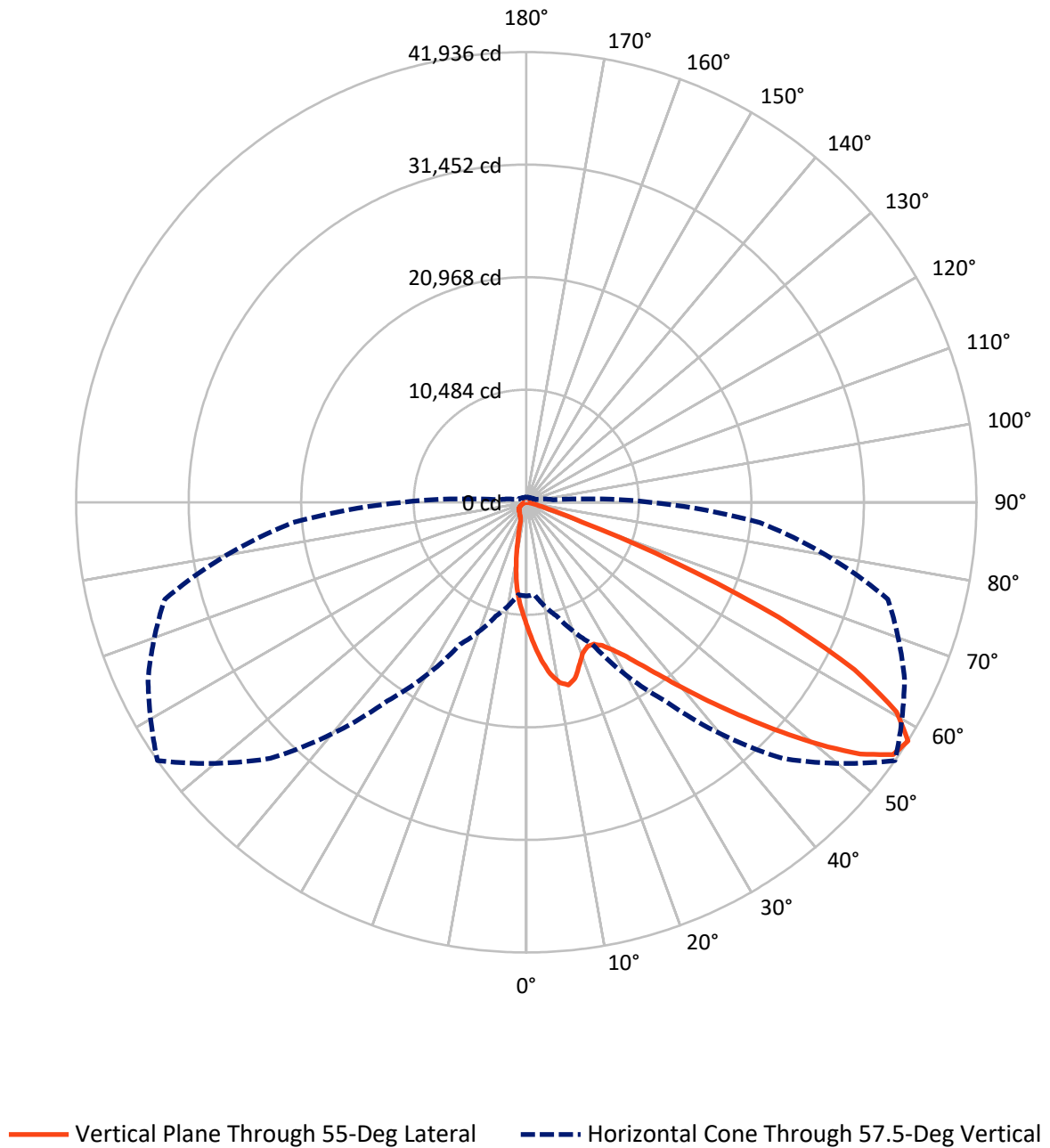
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.5 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	3752.2	0.0	3752.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	44293.8	0.0	44293.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	48046.0	0.0	48046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1077.3	2.2
10°-20°	2602.1	5.4
20°-30°	4163.4	8.7
30°-40°	7046.8	14.7
40°-50°	11569.3	24.1
50°-60°	12715.4	26.5
60°-70°	7293.6	15.2
70°-80°	1490.3	3.1
80°-90°	87.9	0.2
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°	48046.0	100.0
0°-180°	48046.0	100.0

Coefficient of Utilization



REPORT NUMBER: P956970

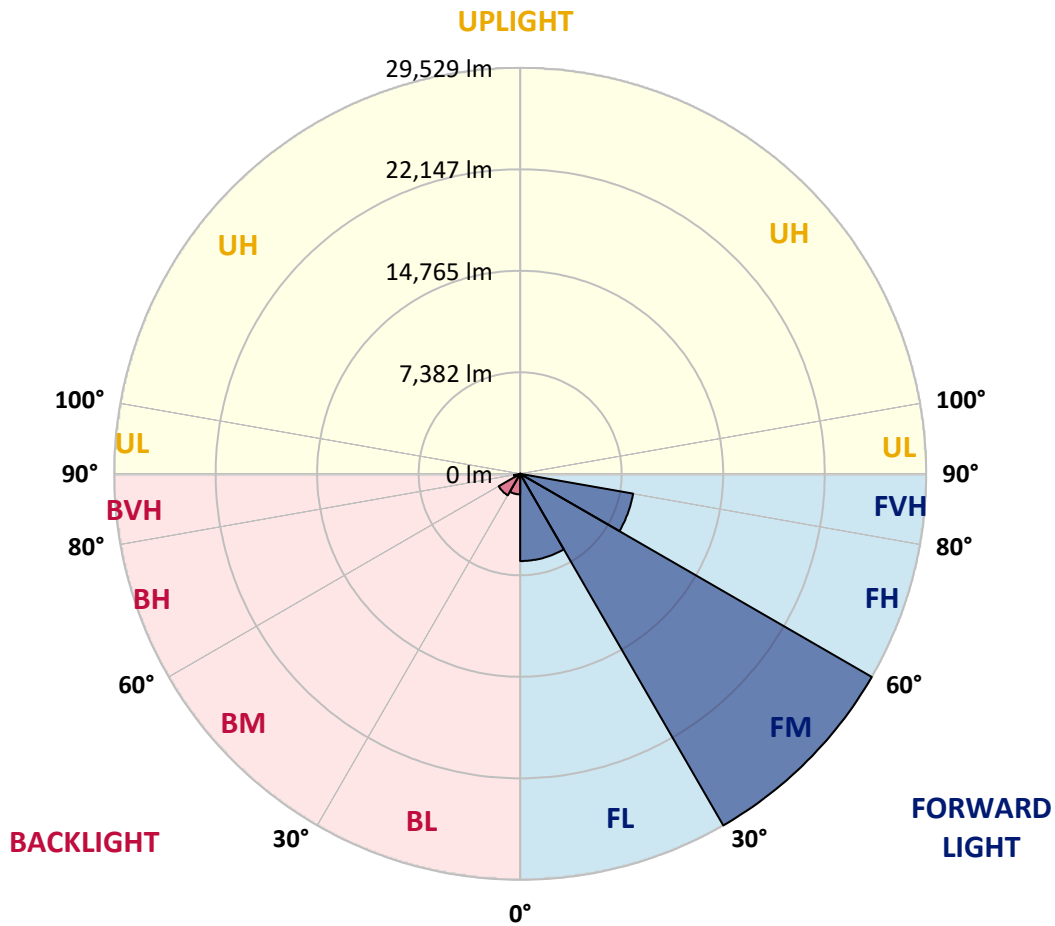
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6344.8	13.2			
FM (30°-60°)	29529.4	61.5			
FH (60°-80°)	8337.6	17.4			G4/12000
FVH (80°-90°)	82.0	0.2			G1/100
BL (0°-30°)	1498.0	3.1	B3/2500		
BM (30°-60°)	1802.0	3.8	B2/2500		
BH (60°-80°)	446.2	0.9	B1/500		G1/500
BVH (80°-90°)	5.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11577.9	11577.9	11577.9	11577.9	11577.9	11577.9	11577.9	11577.9	11577.9	11577.9	11577.9
2.5°	14365.7	14185.0	14158.3	14122.8	13779.1	13521.4	13148.1	12739.2	12280.0	11811.9	11604.6
5°	16596.6	16454.4	16427.7	16261.8	15870.7	15432.3	14768.6	13930.2	13074.0	12066.7	11634.2
7.5°	17029.1	17002.5	17123.9	17118.0	17064.7	16718.0	16158.1	15159.7	13873.9	12380.8	11711.2
10°	15100.5	15168.6	15530.0	15847.0	16703.2	17200.9	17079.5	16255.9	14697.5	12739.2	11797.1
12.5°	13343.6	13263.6	13521.4	13879.9	14875.3	16356.6	17461.7	17171.3	15639.6	13145.1	11924.5
15°	12241.5	12208.9	12354.1	12520.0	13278.4	14771.6	17017.3	17914.9	16546.2	13625.1	12117.1
17.5°	11889.0	11862.3	11906.8	11948.2	12440.0	13595.4	15959.6	18371.2	17414.3	14173.2	12330.4
20°	12176.4	12140.8	12134.9	12102.3	12306.7	13094.8	15002.7	18403.8	18193.4	14670.9	12514.1
22.5°	13014.8	12973.3	12828.1	12697.8	12715.5	13162.9	14576.1	18077.9	18780.0	15136.0	12629.6
25°	14534.6	14466.5	14164.3	13725.8	13447.3	13636.9	14641.2	17648.3	19340.0	15500.4	12573.3
27.5°	16436.6	16347.7	15959.6	15307.8	14670.9	14439.8	15112.3	17352.0	19805.1	15778.9	12451.9
30°	18300.1	18184.5	17802.4	17295.8	16365.5	15636.7	15962.6	17482.4	20359.1	16069.2	12291.9
32.5°	20311.7	20202.1	19695.5	19067.4	18297.1	17316.5	17126.9	18119.4	21037.5	16475.1	12179.3
35°	22856.6	22684.7	21964.8	21108.6	20291.0	19298.5	18703.0	19218.5	21941.1	17094.3	12241.5
37.5°	25754.0	25522.9	24746.7	23564.6	22498.1	21387.1	20622.8	20729.4	23265.4	17923.8	12434.1
40°	28485.5	28275.2	27558.3	26444.3	25105.2	23757.2	22942.5	22705.5	25093.4	18934.1	12771.8
42.5°	30123.9	29934.3	29632.1	29161.0	28032.3	26657.6	25629.6	25117.1	27256.1	20142.8	13183.6
45°	30215.7	30049.8	30455.7	31003.8	30781.6	29866.1	28612.9	27673.8	29427.7	21277.5	13610.3
47.5°	28746.3	28633.7	29866.1	31780.0	32733.9	33119.1	31963.7	30017.2	31220.0	22092.2	13785.1
50°	24740.8	24699.3	27235.3	30749.0	33477.6	35969.1	35498.1	32197.7	32609.5	22512.9	13619.1
52.5°	21452.3	21301.2	22779.6	27448.6	32396.2	37468.2	38952.5	34336.7	33581.2	22592.9	13231.0
55°	16270.7	16137.4	17992.0	21926.3	28909.2	36934.9	41479.6	36543.9	34277.5	22388.5	12534.8
57.5°	8727.9	8644.9	10988.3	14593.8	22598.8	33735.3	41935.8	38878.4	34864.1	21846.3	11560.1
60°	3398.1	3383.3	4260.2	7080.7	13734.7	27445.7	39633.9	40279.7	35231.4	21179.7	10745.4
62.5°	2056.1	2100.5	2242.7	3178.9	6067.4	17049.9	34327.8	38685.8	35477.3	20569.4	10072.9
65°	1700.5	1703.5	1721.3	2183.4	2906.3	7134.0	25842.9	33442.0	34870.0	19482.2	9118.9
67.5°	1457.6	1484.3	1552.4	1733.1	2050.1	3128.5	14878.3	25905.1	31175.6	16952.1	7631.7
70°	1149.5	1185.0	1271.0	1425.0	1582.0	1958.3	5498.6	17236.5	23816.5	12777.8	5771.2
72.5°	968.8	965.8	1010.3	1158.4	1256.1	1377.6	2115.3	9658.1	13841.3	6100.0	2856.0
75°	749.5	779.2	835.5	968.8	1028.0	998.4	1146.5	3528.5	4959.4	1848.7	971.7
77.5°	586.6	610.3	660.7	791.0	850.3	708.1	660.7	1262.1	1593.9	663.6	438.5
80°	263.7	284.4	450.3	583.6	693.3	488.8	358.5	645.9	708.1	302.2	222.2
82.5°	47.4	80.0	263.7	308.1	355.5	317.0	186.6	334.8	346.6	121.5	77.0
85°	3.0	5.9	91.8	112.6	142.2	103.7	56.3	133.3	115.5	41.5	29.6
87.5°	0.0	0.0	0.0	3.0	3.0	14.8	17.8	23.7	17.8	14.8	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956970
 CATALOG NUMBER: GALN-SB9C-722-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11577.9	11577.9	11577.9	11577.9	11577.9	11577.9	11577.9	11577.9	11577.9	11577.9
2.5°	11391.3	10970.6	10561.7	10226.9	10031.4	9699.6	9480.4	9444.8	9353.0	9433.0
5°	11172.0	10419.5	9658.1	8976.7	8416.8	7693.9	7154.7	6926.6	6728.1	6796.2
7.5°	11068.3	9880.3	8695.3	7531.0	6334.1	5178.7	4319.5	3961.0	3688.5	3727.0
10°	10929.1	9320.4	7462.8	5685.3	4082.5	2941.9	2349.4	2130.1	2008.7	2011.6
12.5°	10822.4	8650.8	6031.9	3854.4	2485.6	1878.3	1694.6	1641.3	1605.7	1608.7
15°	10769.1	7862.8	4618.7	2568.6	1777.6	1590.9	1546.5	1522.8	1499.1	1496.1
17.5°	10680.2	6985.8	3380.3	1875.3	1555.4	1490.2	1451.7	1425.0	1395.4	1389.5
20°	10546.9	5990.4	2470.8	1585.0	1457.6	1407.2	1353.9	1318.4	1282.8	1276.9
22.5°	10301.0	4938.7	1899.0	1466.5	1386.5	1330.2	1265.0	1223.6	1188.0	1182.1
25°	9844.8	3952.1	1599.8	1392.4	1324.3	1256.1	1185.0	1128.8	1096.2	1090.2
27.5°	9267.1	3104.8	1451.7	1324.3	1244.3	1182.1	1102.1	1048.8	1019.1	1013.2
30°	8585.7	2390.8	1365.8	1247.3	1149.5	1096.2	1025.1	980.6	962.9	962.9
32.5°	7850.9	1910.9	1330.2	1170.2	1066.5	1007.3	951.0	933.2	927.3	924.3
35°	7160.6	1659.1	1312.4	1108.0	992.5	936.2	912.5	915.4	927.3	927.3
37.5°	6547.4	1579.1	1303.6	1063.6	927.3	876.9	891.7	918.4	906.6	906.6
40°	5993.4	1588.0	1297.6	1031.0	874.0	844.3	874.0	853.2	823.6	820.6
42.5°	5569.7	1662.0	1285.8	1004.3	841.4	820.6	808.8	776.2	773.2	779.2
45°	5261.6	1727.2	1282.8	992.5	805.8	767.3	752.5	719.9	779.2	794.0
47.5°	4897.2	1727.2	1282.8	951.0	746.6	731.8	708.1	672.5	731.8	746.6
50°	4426.1	1617.6	1232.4	903.6	699.2	690.3	648.8	604.4	592.5	601.4
52.5°	3830.7	1419.1	1105.1	838.4	651.8	634.0	583.6	551.0	542.2	542.2
55°	3152.2	1188.0	933.2	743.6	601.4	568.8	533.3	518.5	509.6	503.6
57.5°	2562.7	974.7	749.5	660.7	554.0	512.5	500.7	482.9	468.1	459.2
60°	2103.5	767.3	619.2	586.6	506.6	468.1	465.1	441.4	402.9	397.0
62.5°	1623.5	562.9	521.4	509.6	459.2	426.6	420.7	373.3	314.0	302.2
65°	1146.5	438.5	420.7	447.4	408.8	379.2	364.4	293.3	231.1	222.2
67.5°	805.8	367.4	331.8	391.1	355.5	317.0	308.1	248.9	192.6	186.6
70°	574.7	299.2	272.6	334.8	284.4	278.5	260.7	207.4	157.0	151.1
72.5°	405.9	228.1	210.3	290.3	195.5	240.0	213.3	160.0	118.5	112.6
75°	299.2	162.9	148.1	168.9	142.2	180.7	151.1	106.7	74.1	71.1
77.5°	219.2	103.7	88.9	83.0	83.0	112.6	83.0	44.4	32.6	29.6
80°	154.1	47.4	41.5	35.6	32.6	26.7	11.9	5.9	3.0	3.0
82.5°	91.8	20.7	20.7	14.8	8.9	0.0	0.0	0.0	0.0	0.0
85°	20.7	8.9	8.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)