

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: P945236

Luminaire Tested: **GALN-SB1B-730-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4536 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 39.8
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



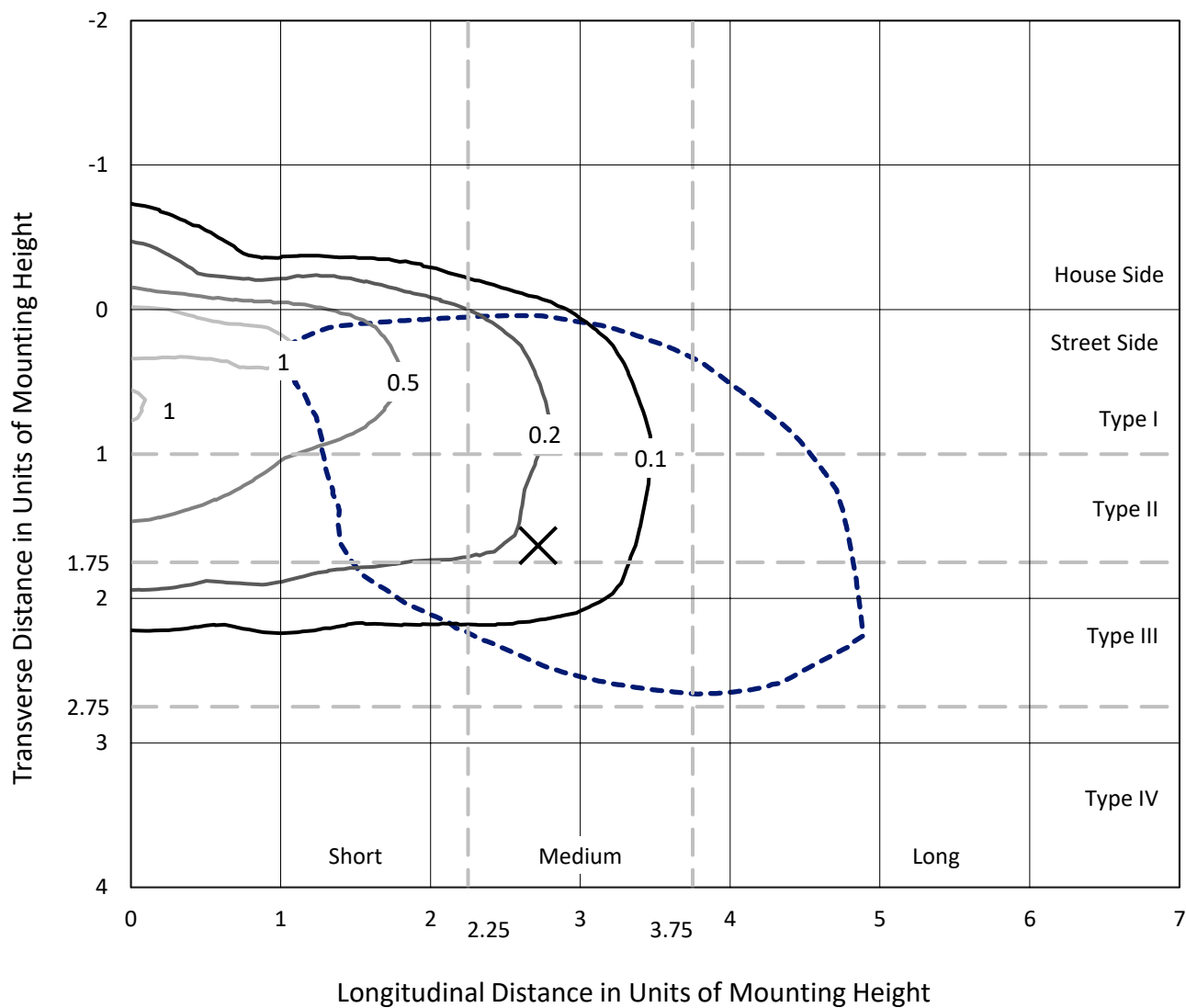
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

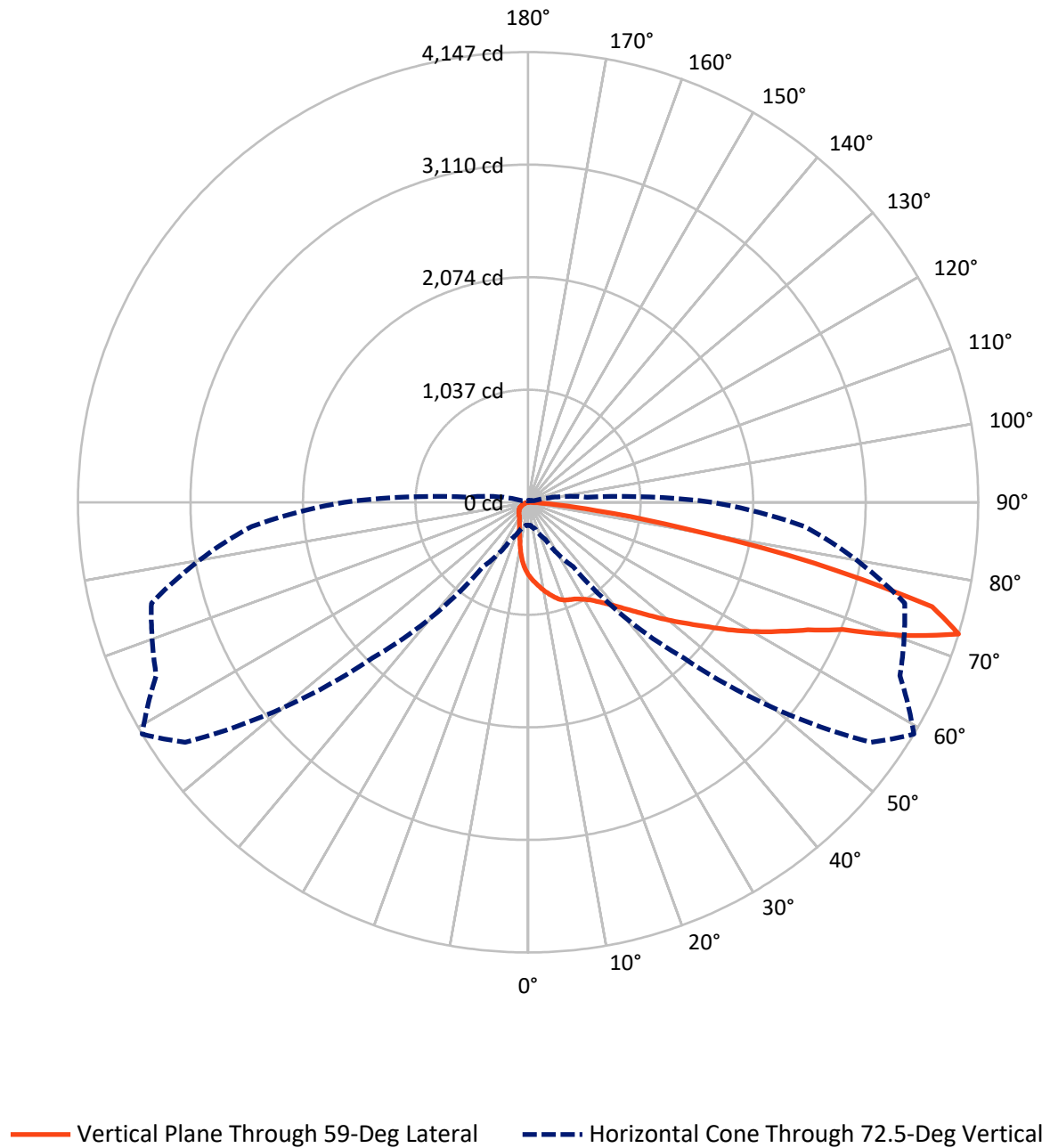


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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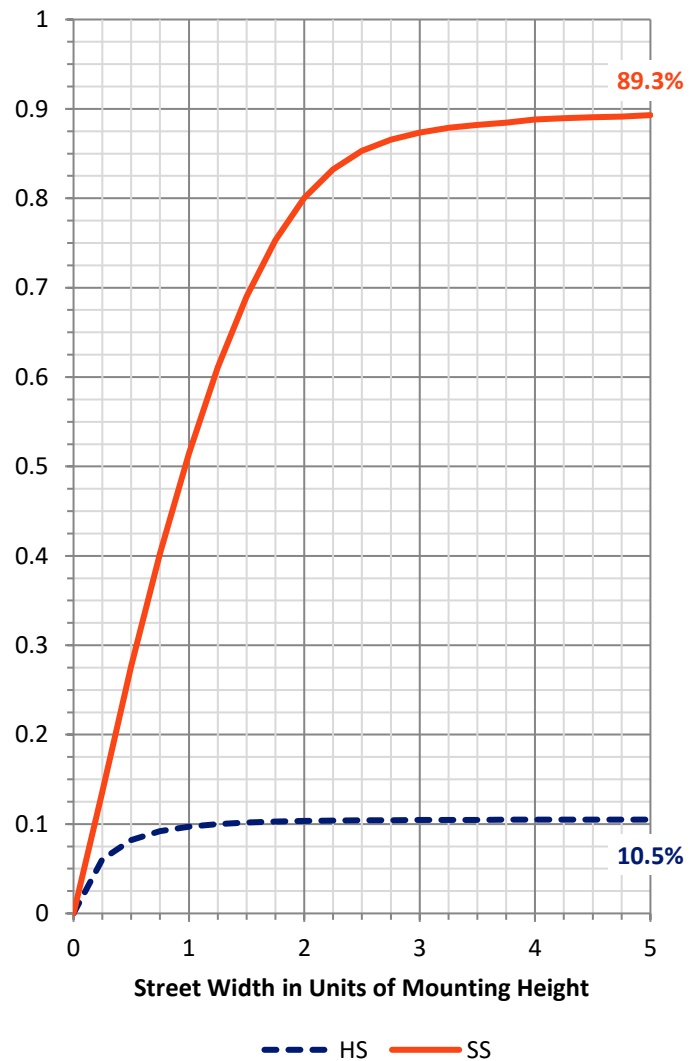
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	479.1	0.0	479.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4056.9	0.0	4056.9
	% Fixture	89.4	0.0	89.4
Total	Lumens	4536.0	0.0	4536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	1.3
10°-20°	161.2	3.6
20°-30°	255.5	5.6
30°-40°	410.0	9.0
40°-50°	654.8	14.4
50°-60°	948.1	20.9
60°-70°	1125.1	24.8
70°-80°	835.2	18.4
80°-90°	85.4	1.9
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°	4536.0	100.0
0°-180°	4536.0	100.0

Coefficient of Utilization



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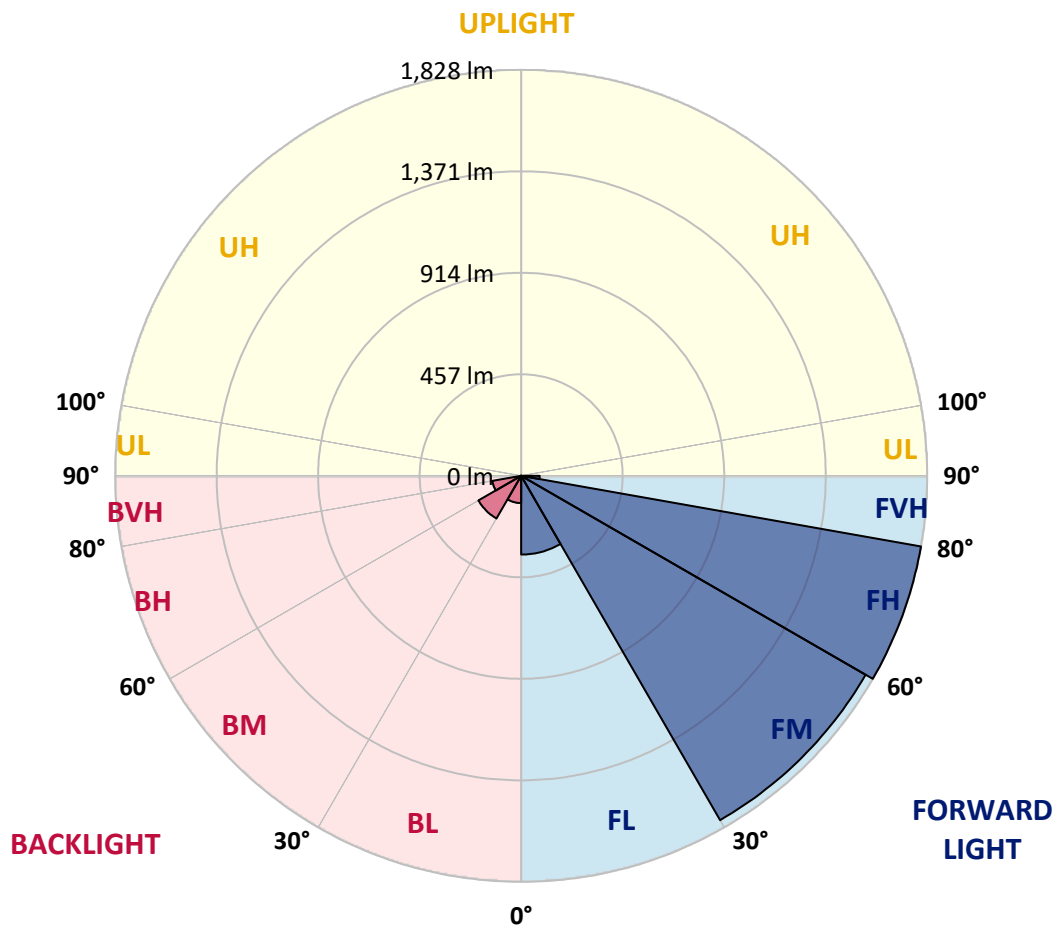
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.6	7.8			
FM	(30°-60°)	1790.7	39.5			
FH	(60°-80°)	1828.3	40.3			G2/5000
FVH	(80°-90°)	83.3	1.8			G1/100
BL	(0°-30°)	122.7	2.7	B1/500		
BM	(30°-60°)	222.1	4.9	B1/1000		
BH	(60°-80°)	132.1	2.9	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8
2.5°	744.2	740.1	740.7	733.5	728.5	723.2	712.8	711.3	703.9	690.9	677.6
5°	809.1	806.4	804.0	796.0	785.7	772.6	755.2	748.9	735.3	712.8	686.8
7.5°	856.4	853.2	854.4	846.4	838.1	823.6	799.6	788.0	770.0	735.6	696.2
10°	865.6	863.9	871.6	874.5	874.5	865.3	841.9	830.4	804.0	760.2	706.0
12.5°	814.1	814.4	833.6	856.7	887.0	895.5	879.8	867.4	841.3	786.3	718.4
15°	754.0	754.3	772.9	802.6	852.0	901.5	913.9	905.9	879.0	814.4	733.0
17.5°	717.9	716.4	728.8	753.1	804.9	874.5	934.6	940.0	918.0	845.5	748.9
20°	712.8	710.2	716.7	728.8	765.8	840.8	937.0	962.2	958.3	880.7	767.3
22.5°	743.6	739.5	735.9	736.5	752.2	812.6	931.1	974.6	999.8	923.1	792.5
25°	804.6	798.1	786.6	771.8	768.5	806.7	926.9	988.2	1038.3	977.3	825.6
27.5°	879.3	870.1	847.9	825.6	806.7	823.3	935.5	1009.9	1081.8	1040.4	864.1
30°	961.3	950.0	927.8	885.8	855.6	860.3	956.0	1038.3	1137.5	1111.7	912.4
32.5°	1081.8	1055.8	1017.0	952.7	912.7	900.3	986.8	1074.4	1206.5	1206.8	982.3
35°	1185.2	1170.7	1131.6	1051.6	969.6	953.3	1027.3	1125.3	1302.1	1332.6	1080.0
37.5°	1253.0	1233.1	1198.8	1138.7	1057.8	1007.8	1081.5	1187.8	1403.4	1476.0	1200.6
40°	1328.8	1309.3	1263.6	1207.1	1160.3	1101.4	1149.9	1259.8	1514.5	1623.2	1338.3
42.5°	1420.3	1394.8	1340.9	1279.9	1231.1	1224.6	1239.4	1349.5	1628.5	1783.1	1481.6
45°	1527.8	1503.8	1441.9	1364.9	1322.0	1310.4	1351.9	1454.1	1755.5	1958.4	1626.4
47.5°	1628.5	1600.7	1534.0	1463.8	1416.2	1379.7	1471.5	1577.6	1899.5	2141.7	1763.2
50°	1714.1	1685.7	1624.6	1549.7	1517.4	1469.8	1589.1	1715.3	2042.2	2328.0	1888.2
52.5°	1772.7	1747.5	1675.9	1624.9	1603.0	1579.0	1726.8	1861.3	2184.4	2498.6	2011.7
55°	1759.4	1736.9	1673.8	1670.3	1668.8	1693.9	1891.5	2026.8	2329.2	2660.0	2134.6
57.5°	1717.0	1691.6	1612.8	1667.0	1719.4	1796.4	2069.8	2222.6	2487.9	2812.2	2253.1
60°	1592.4	1583.5	1535.5	1660.8	1740.7	1896.8	2273.5	2419.2	2659.7	2946.0	2358.2
62.5°	1328.5	1336.2	1335.9	1673.8	1779.2	2011.1	2458.6	2618.2	2827.6	3074.9	2451.8
65°	994.7	1021.4	1055.5	1556.5	1830.8	2215.2	2679.8	2834.1	2998.2	3224.7	2546.8
67.5°	668.4	689.7	712.8	1277.0	1677.4	2429.6	3047.3	3129.9	3202.5	3390.8	2653.7
70°	382.6	389.4	421.7	797.5	1293.0	2370.3	3645.8	3675.7	3507.2	3595.5	2731.6
72.5°	214.4	212.0	254.7	378.5	722.6	2029.8	3855.5	4147.2	3780.0	3592.2	2557.8
75°	143.3	143.6	175.3	238.7	281.6	1420.9	3322.4	3845.4	3616.5	3185.3	2089.9
77.5°	97.7	101.0	128.8	184.5	130.3	693.3	2198.0	2693.7	2928.0	2459.8	1442.8
80°	42.3	42.6	85.0	132.4	88.0	220.6	1139.6	1443.1	1836.4	1381.2	571.6
82.5°	21.9	24.9	54.2	85.6	55.4	77.3	538.4	630.5	770.6	405.4	117.3
85°	7.7	9.2	33.5	42.1	27.8	27.5	187.5	191.0	163.2	61.0	32.3
87.5°	0.0	1.5	13.0	10.4	3.6	3.3	22.2	18.7	14.8	8.6	10.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8
2.5°	671.4	663.4	650.3	634.3	615.7	605.6	591.1	582.2	574.2	574.5	581.0
5°	672.2	658.9	625.8	590.5	551.4	522.7	490.7	468.2	451.0	446.9	453.1
7.5°	674.9	652.4	598.2	539.6	474.4	426.2	382.0	354.2	338.5	334.3	338.5
10°	678.5	645.3	567.1	477.4	396.5	338.5	301.8	284.0	276.9	271.6	274.8
12.5°	681.4	637.9	528.0	413.1	327.2	281.9	254.1	239.3	233.1	229.2	231.3
15°	686.5	628.1	485.7	353.3	280.4	243.4	217.1	206.1	204.3	204.9	205.8
17.5°	691.5	618.6	438.3	306.5	246.1	209.7	193.7	191.9	194.3	196.6	197.5
20°	697.1	605.0	390.3	271.3	214.4	186.3	182.1	183.3	184.5	188.6	189.8
22.5°	705.4	587.8	348.3	241.4	188.1	175.0	172.9	173.8	174.7	178.9	180.1
25°	717.3	569.5	314.2	213.8	171.5	165.8	163.8	163.8	165.0	168.8	170.3
27.5°	729.7	543.4	286.7	188.3	161.7	155.8	152.2	152.2	153.7	158.1	159.9
30°	743.6	519.7	265.0	169.4	153.4	145.7	141.0	139.8	141.6	147.2	148.7
32.5°	768.8	504.3	249.6	160.5	146.0	136.5	130.0	126.7	128.5	135.0	136.8
35°	807.0	500.8	239.0	156.1	138.9	128.2	119.0	114.0	115.5	122.3	124.4
37.5°	851.7	508.2	228.6	150.1	132.1	120.2	108.1	101.6	103.9	110.2	111.9
40°	916.0	539.0	220.6	145.7	125.3	110.8	97.1	90.6	94.5	99.8	100.7
42.5°	993.6	593.8	218.6	141.6	117.0	100.7	87.1	82.3	85.3	90.3	91.2
45°	1089.8	663.7	228.0	136.2	107.8	90.9	79.1	76.4	77.3	82.3	84.7
47.5°	1193.2	735.3	254.1	131.5	99.8	82.9	72.9	70.5	69.9	74.6	77.6
50°	1297.7	799.0	284.9	127.9	94.2	76.4	68.1	65.2	63.7	66.6	67.8
52.5°	1401.1	849.6	305.0	122.0	88.5	69.9	64.0	59.5	56.9	58.3	59.5
55°	1505.9	894.1	306.2	113.1	83.2	65.7	59.8	54.8	51.5	51.5	52.1
57.5°	1603.9	933.2	288.7	101.3	75.8	61.9	54.2	50.0	46.5	45.3	45.6
60°	1690.7	962.2	259.7	88.0	69.3	56.9	48.6	45.3	40.9	38.5	37.9
62.5°	1768.0	976.4	220.0	74.3	61.3	50.9	43.2	39.7	33.8	30.8	30.5
65°	1833.4	961.9	178.6	61.6	54.5	44.4	37.0	33.5	26.9	23.4	23.4
67.5°	1898.3	895.5	135.0	51.8	47.4	37.3	30.5	27.2	22.5	19.5	19.5
70°	1906.6	756.1	94.5	43.5	39.4	28.7	24.6	22.5	18.4	15.7	15.4
72.5°	1697.2	544.0	57.5	35.5	30.8	20.4	19.5	17.8	13.6	11.8	11.5
75°	1356.6	333.5	33.8	26.7	20.4	14.5	14.5	12.7	9.2	7.7	7.7
77.5°	937.6	174.4	19.8	17.2	12.1	8.6	9.5	7.7	4.4	3.6	3.6
80°	375.5	66.3	10.7	8.0	5.6	3.8	3.3	1.8	0.9	0.6	0.9
82.5°	74.9	17.5	3.6	2.1	2.1	0.9	0.0	0.0	0.0	0.0	0.0
85°	19.2	3.8	0.9	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	0.0	0.0	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	0.0

(END OF REPORT)