

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: P945215

Luminaire Tested: **GALN-SB1B-727-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945215
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-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 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: 4207 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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

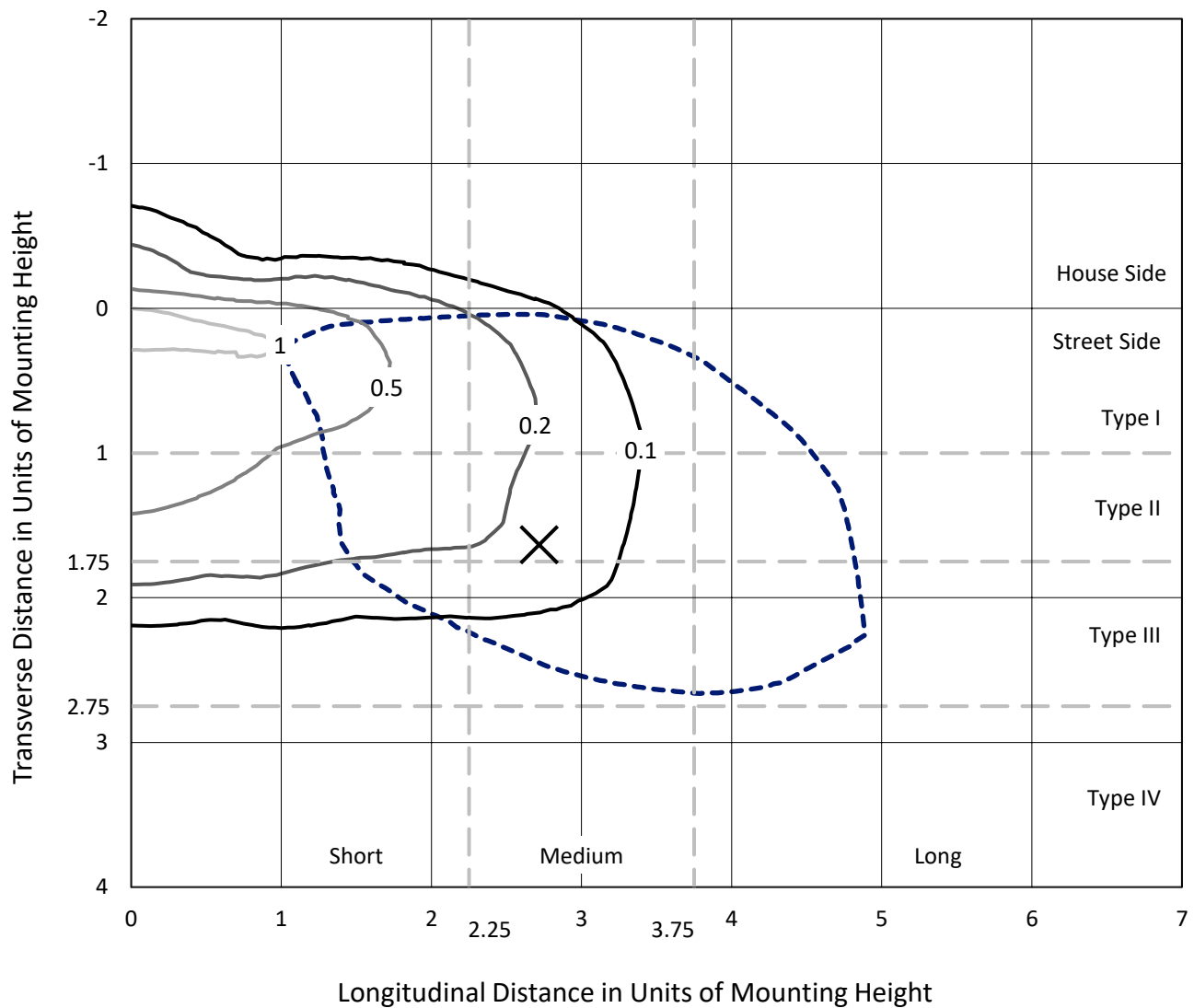


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Iso-Footcandle Lines of Horizontal Illumination

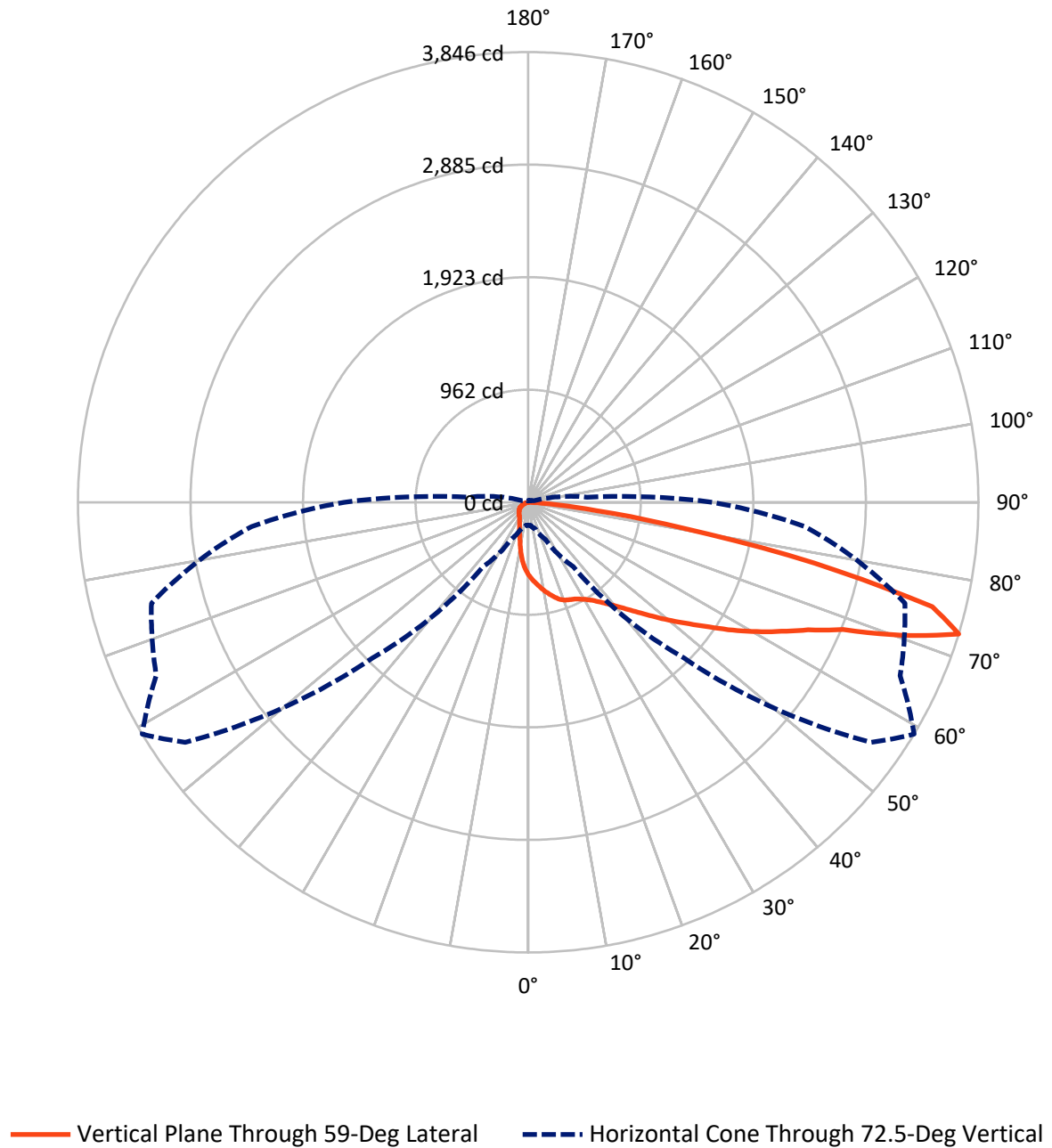
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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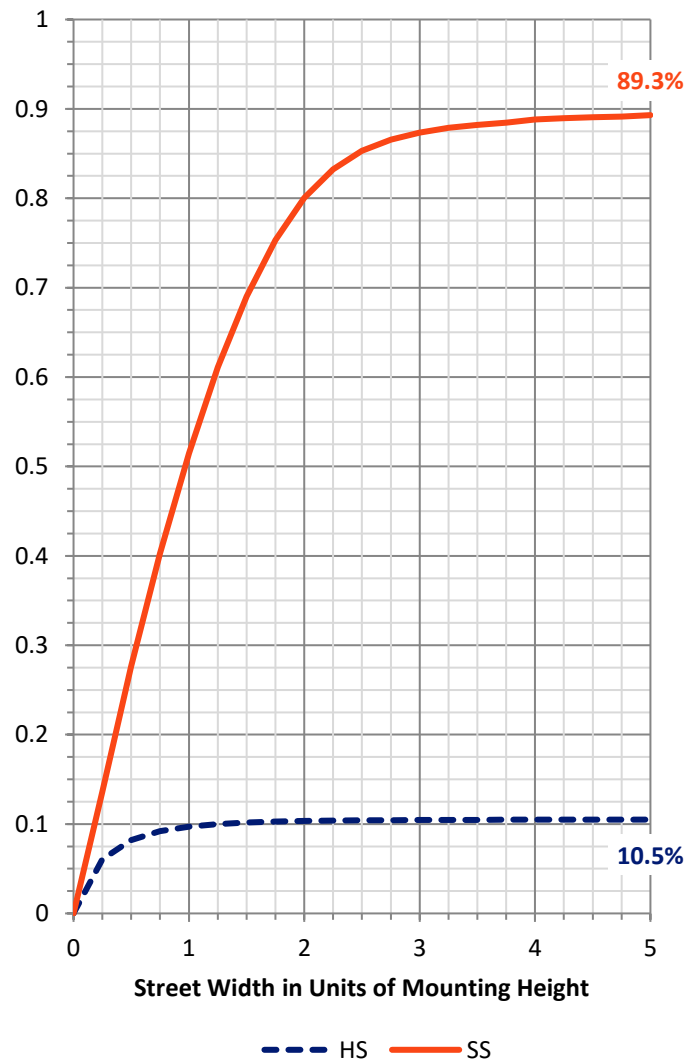
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	444.3	0.0	444.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3762.7	0.0	3762.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	4207.0	0.0	4207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	1.3
10°-20°	149.5	3.6
20°-30°	236.9	5.6
30°-40°	380.2	9.0
40°-50°	607.3	14.4
50°-60°	879.3	20.9
60°-70°	1043.5	24.8
70°-80°	774.7	18.4
80°-90°	79.2	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°	4207.0	100.0
0°-180°	4207.0	100.0

Coefficient of Utilization



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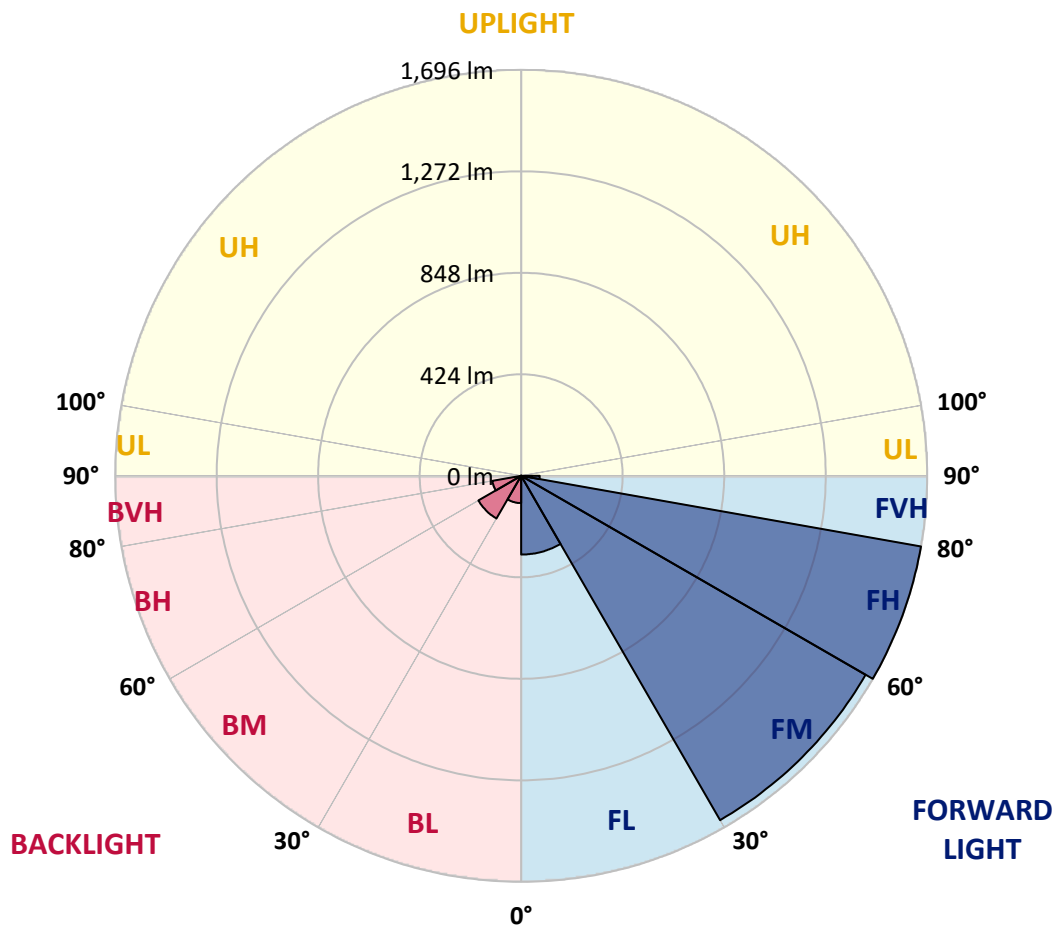
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	328.9	7.8			
FM	(30°-60°)	1660.9	39.5			
FH	(60°-80°)	1695.7	40.3			G1/1800
FVH	(80°-90°)	77.2	1.8			G1/100
BL	(0°-30°)	113.8	2.7	B1/500		
BM	(30°-60°)	206.0	4.9	B0/220		
BH	(60°-80°)	122.5	2.9	B1/500		G1/500
BVH	(80°-90°)	2.0	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-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	622.1	622.1	622.1	622.1	622.1	622.1	622.1	622.1	622.1	622.1	622.1
2.5°	690.2	686.4	686.9	680.3	675.7	670.7	661.1	659.7	652.9	640.8	628.4
5°	750.4	747.9	745.7	738.3	728.7	716.6	700.4	694.6	682.0	661.1	636.9
7.5°	794.3	791.3	792.4	785.0	777.3	763.8	741.6	730.9	714.1	682.3	645.7
10°	802.8	801.2	808.3	811.1	811.1	802.6	780.9	770.2	745.7	705.1	654.8
12.5°	755.1	755.3	773.2	794.6	822.6	830.6	816.0	804.5	780.3	729.2	666.3
15°	699.3	699.6	716.9	744.3	790.2	836.1	847.6	840.2	815.2	755.3	679.8
17.5°	665.8	664.4	675.9	698.5	746.5	811.1	866.8	871.8	851.5	784.2	694.6
20°	661.1	658.6	664.7	675.9	710.3	779.8	869.0	892.4	888.8	816.9	711.7
22.5°	689.7	685.8	682.5	683.1	697.6	753.7	863.5	903.9	927.3	856.1	735.0
25°	746.3	740.2	729.5	715.8	712.8	748.2	859.7	916.6	963.0	906.4	765.8
27.5°	815.5	807.0	786.4	765.8	748.2	763.6	867.7	936.6	1003.3	964.9	801.5
30°	891.6	881.1	860.5	821.5	793.5	797.9	886.6	963.0	1055.0	1031.1	846.2
32.5°	1003.3	979.2	943.2	883.6	846.5	835.0	915.2	996.5	1119.0	1119.3	911.1
35°	1099.2	1085.7	1049.5	975.3	899.3	884.1	952.8	1043.7	1207.7	1236.0	1001.7
37.5°	1162.1	1143.7	1111.8	1056.1	981.1	934.7	1003.1	1101.7	1301.6	1368.9	1113.5
40°	1232.4	1214.3	1172.0	1119.5	1076.1	1021.5	1066.5	1168.4	1404.6	1505.4	1241.2
42.5°	1317.3	1293.7	1243.7	1187.1	1141.8	1135.7	1149.5	1251.6	1510.4	1653.8	1374.1
45°	1417.0	1394.7	1337.3	1265.9	1226.1	1215.4	1253.8	1348.6	1628.2	1816.4	1508.5
47.5°	1510.4	1484.6	1422.8	1357.7	1313.4	1279.7	1364.8	1463.1	1761.7	1986.4	1635.4
50°	1589.8	1563.4	1506.8	1437.3	1407.4	1363.2	1473.8	1590.9	1894.1	2159.1	1751.3
52.5°	1644.1	1620.8	1554.3	1507.1	1486.8	1464.5	1601.6	1726.3	2025.9	2317.3	1865.8
55°	1631.8	1610.9	1552.4	1549.1	1547.7	1571.1	1754.3	1879.8	2160.2	2467.0	1979.8
57.5°	1592.5	1568.9	1495.8	1546.1	1594.7	1666.1	1919.6	2061.4	2307.5	2608.2	2089.6
60°	1476.9	1468.6	1424.1	1540.3	1614.5	1759.2	2108.6	2243.7	2466.8	2732.4	2187.2
62.5°	1232.1	1239.3	1239.0	1552.4	1650.2	1865.2	2280.3	2428.3	2622.5	2851.8	2273.9
65°	922.6	947.3	978.9	1443.6	1698.0	2054.5	2485.4	2628.5	2780.7	2990.8	2362.1
67.5°	619.9	639.7	661.1	1184.4	1555.7	2253.3	2826.3	2902.9	2970.2	3144.9	2461.3
70°	354.9	361.2	391.1	739.7	1199.2	2198.4	3381.4	3409.1	3252.9	3334.7	2533.5
72.5°	198.9	196.7	236.2	351.0	670.2	1882.6	3575.9	3846.4	3505.8	3331.7	2372.3
75°	132.9	133.2	162.6	221.4	261.2	1317.8	3081.5	3566.5	3354.2	2954.3	1938.3
77.5°	90.6	93.7	119.5	171.1	120.9	643.0	2038.6	2498.3	2715.6	2281.4	1338.2
80°	39.3	39.6	78.8	122.8	81.6	204.6	1056.9	1338.4	1703.2	1281.0	530.1
82.5°	20.3	23.1	50.3	79.4	51.4	71.7	499.3	584.8	714.7	376.0	108.8
85°	7.1	8.5	31.0	39.0	25.8	25.5	173.9	177.2	151.3	56.6	29.9
87.5°	0.0	1.4	12.1	9.6	3.3	3.0	20.6	17.3	13.7	8.0	9.9
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°	622.1	622.1	622.1	622.1	622.1	622.1	622.1	622.1	622.1	622.1	622.1
2.5°	622.7	615.2	603.2	588.3	571.0	561.7	548.2	540.0	532.6	532.8	538.9
5°	623.5	611.1	580.4	547.7	511.4	484.8	455.1	434.2	418.3	414.5	420.2
7.5°	626.0	605.1	554.8	500.4	440.0	395.2	354.3	328.5	313.9	310.1	313.9
10°	629.3	598.5	526.0	442.8	367.8	313.9	279.9	263.4	256.8	251.9	254.9
12.5°	632.0	591.6	489.7	383.2	303.5	261.5	235.7	221.9	216.2	212.6	214.5
15°	636.7	582.6	450.4	327.7	260.1	225.8	201.3	191.2	189.5	190.1	190.9
17.5°	641.3	573.8	406.5	284.3	228.2	194.5	179.6	178.0	180.2	182.4	183.2
20°	646.6	561.1	362.0	251.6	198.9	172.8	168.9	170.0	171.1	175.0	176.1
22.5°	654.3	545.2	323.0	223.9	174.4	162.3	160.4	161.2	162.1	165.9	167.0
25°	665.2	528.2	291.4	198.3	159.0	153.8	151.9	151.9	153.0	156.6	157.9
27.5°	676.8	504.0	265.9	174.7	150.0	144.5	141.2	141.2	142.6	146.7	148.3
30°	689.7	482.0	245.8	157.1	142.3	135.1	130.7	129.6	131.3	136.5	137.9
32.5°	713.0	467.8	231.5	148.9	135.4	126.6	120.6	117.6	119.2	125.2	126.9
35°	748.5	464.5	221.7	144.7	128.8	118.9	110.4	105.7	107.1	113.4	115.4
37.5°	789.9	471.3	212.0	139.3	122.5	111.5	100.3	94.2	96.4	102.2	103.8
40°	849.5	499.9	204.6	135.1	116.2	102.7	90.1	84.0	87.6	92.6	93.4
42.5°	921.5	550.7	202.7	131.3	108.5	93.4	80.8	76.4	79.1	83.8	84.6
45°	1010.8	615.5	211.5	126.3	100.0	84.3	73.3	70.9	71.7	76.4	78.6
47.5°	1106.6	682.0	235.7	122.0	92.6	76.9	67.6	65.4	64.8	69.2	72.0
50°	1203.6	741.0	264.2	118.7	87.3	70.9	63.2	60.4	59.1	61.8	62.9
52.5°	1299.4	788.0	282.9	113.2	82.1	64.8	59.3	55.2	52.7	54.1	55.2
55°	1396.7	829.2	284.0	104.9	77.2	61.0	55.5	50.8	47.8	47.8	48.3
57.5°	1487.6	865.5	267.8	93.9	70.3	57.4	50.3	46.4	43.1	42.0	42.3
60°	1568.1	892.4	240.9	81.6	64.3	52.7	45.0	42.0	37.9	35.7	35.2
62.5°	1639.7	905.6	204.1	68.9	56.9	47.2	40.1	36.8	31.3	28.6	28.3
65°	1700.4	892.1	165.6	57.1	50.5	41.2	34.3	31.0	25.0	21.7	21.7
67.5°	1760.6	830.6	125.2	48.1	43.9	34.6	28.3	25.3	20.9	18.1	18.1
70°	1768.3	701.2	87.6	40.4	36.5	26.6	22.8	20.9	17.0	14.6	14.3
72.5°	1574.1	504.6	53.3	33.0	28.6	19.0	18.1	16.5	12.6	11.0	10.7
75°	1258.2	309.3	31.3	24.7	19.0	13.5	13.5	11.8	8.5	7.1	7.1
77.5°	869.6	161.8	18.4	15.9	11.3	8.0	8.8	7.1	4.1	3.3	3.3
80°	348.3	61.5	9.9	7.4	5.2	3.6	3.0	1.6	0.8	0.5	0.8
82.5°	69.5	16.2	3.3	1.9	1.9	0.8	0.0	0.0	0.0	0.0	0.0
85°	17.9	3.6	0.8	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	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)