

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: LUMARK

Report Number: P960540

Luminaire Tested: **NAV-SB1C-835-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-835-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5442.8 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 54.4
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



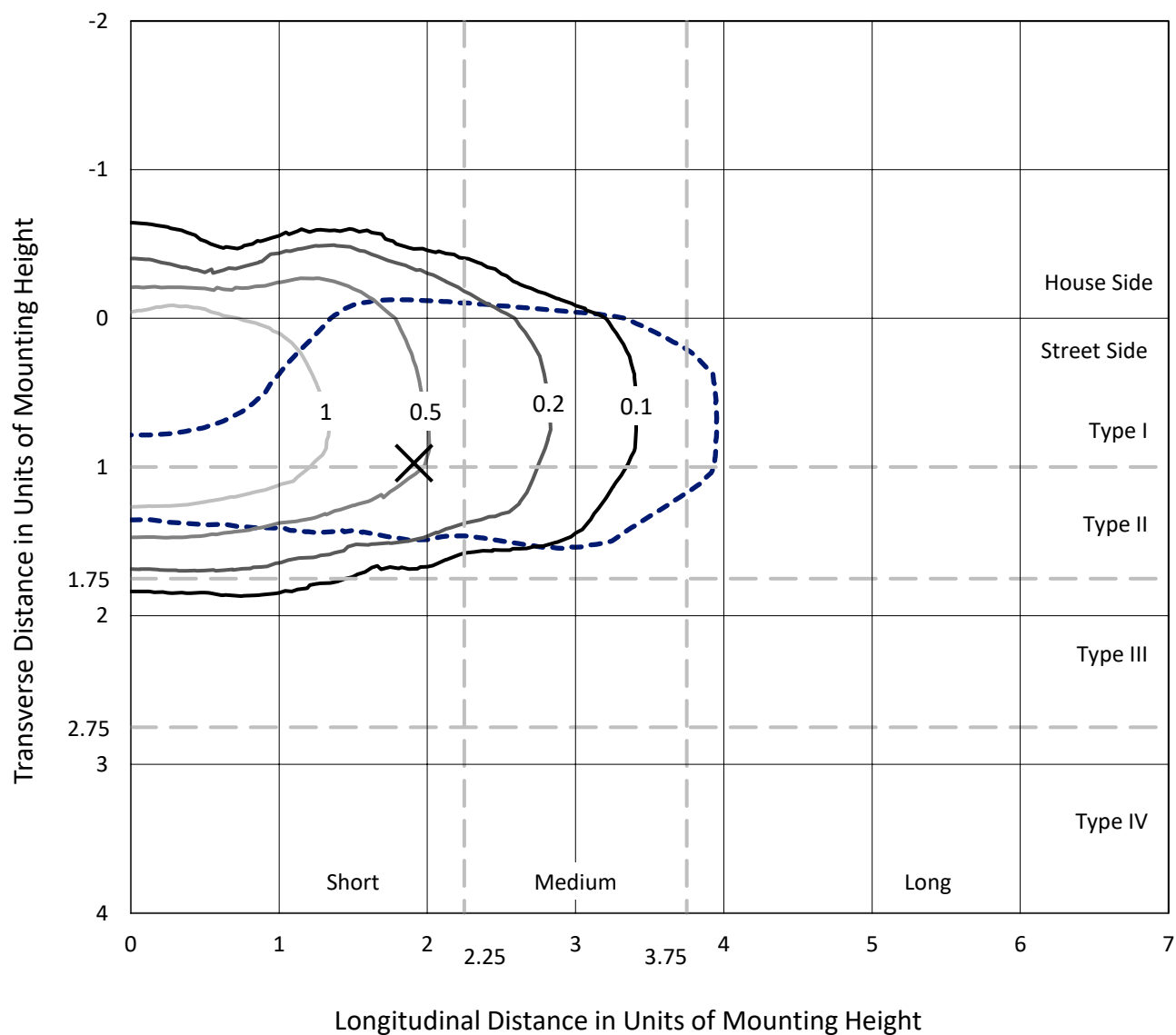
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

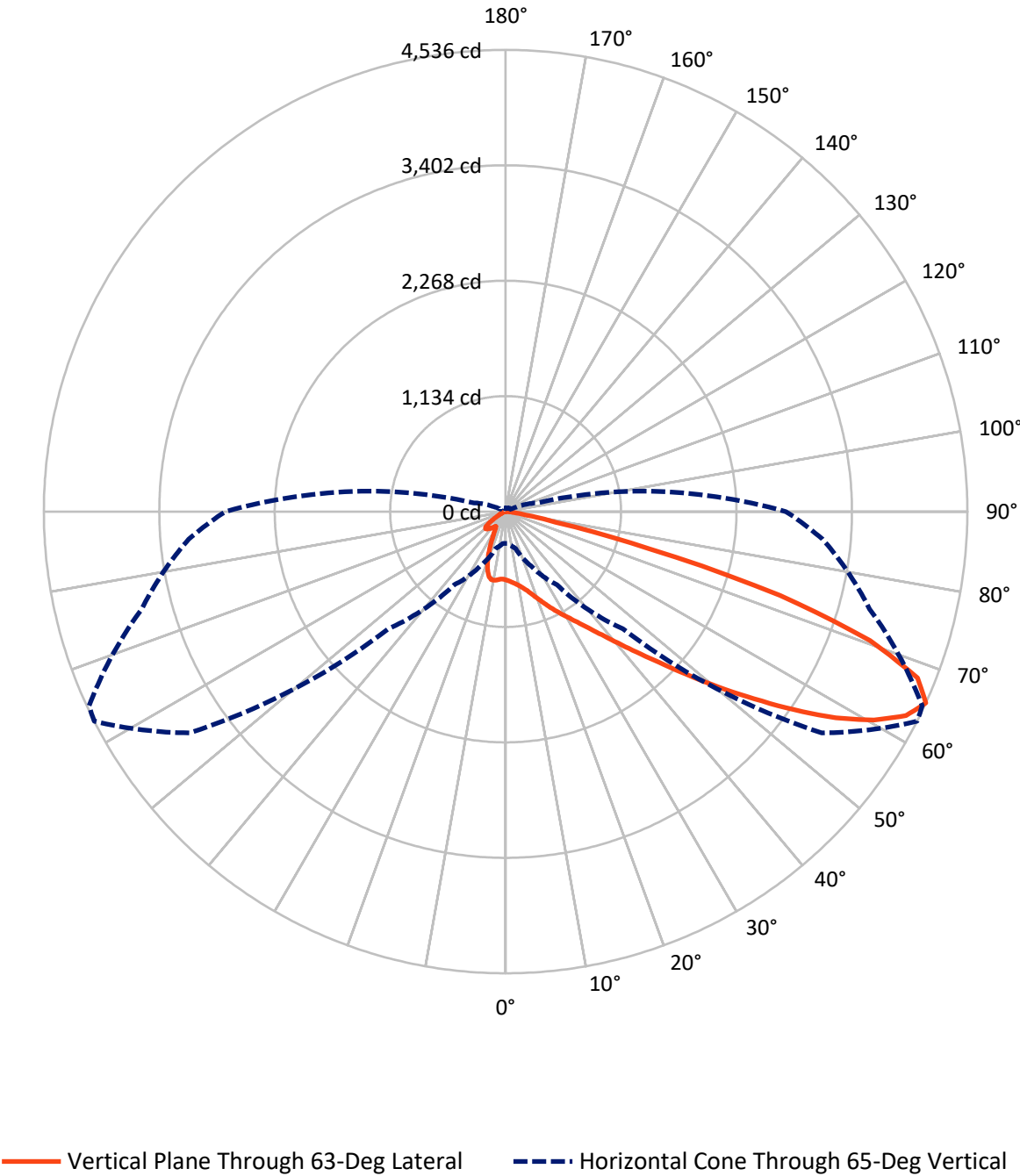


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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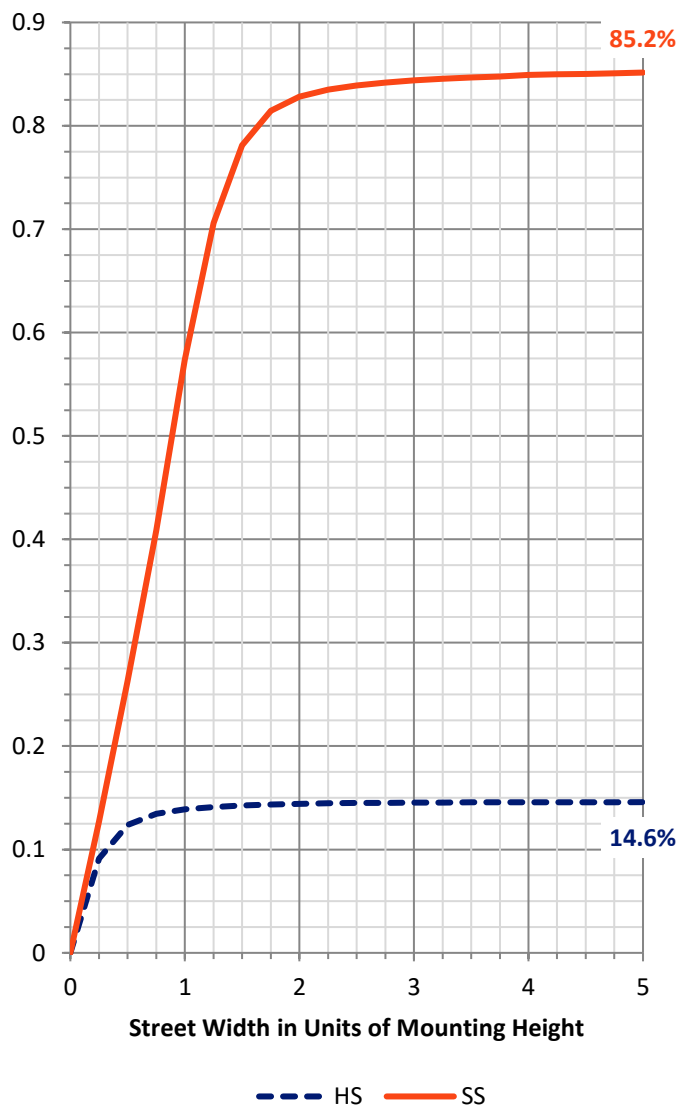
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	800.0	0.0	800.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	4642.7	0.0	4642.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	5442.8	0.0	5442.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	1.2
10°-20°	175.6	3.2
20°-30°	305.8	5.6
30°-40°	551.1	10.1
40°-50°	1093.1	20.1
50°-60°	1488.9	27.4
60°-70°	1188.5	21.8
70°-80°	537.8	9.9
80°-90°	38.7	0.7
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°	5442.8	100.0
0°-180°	5442.8	100.0

Coefficient of Utilization



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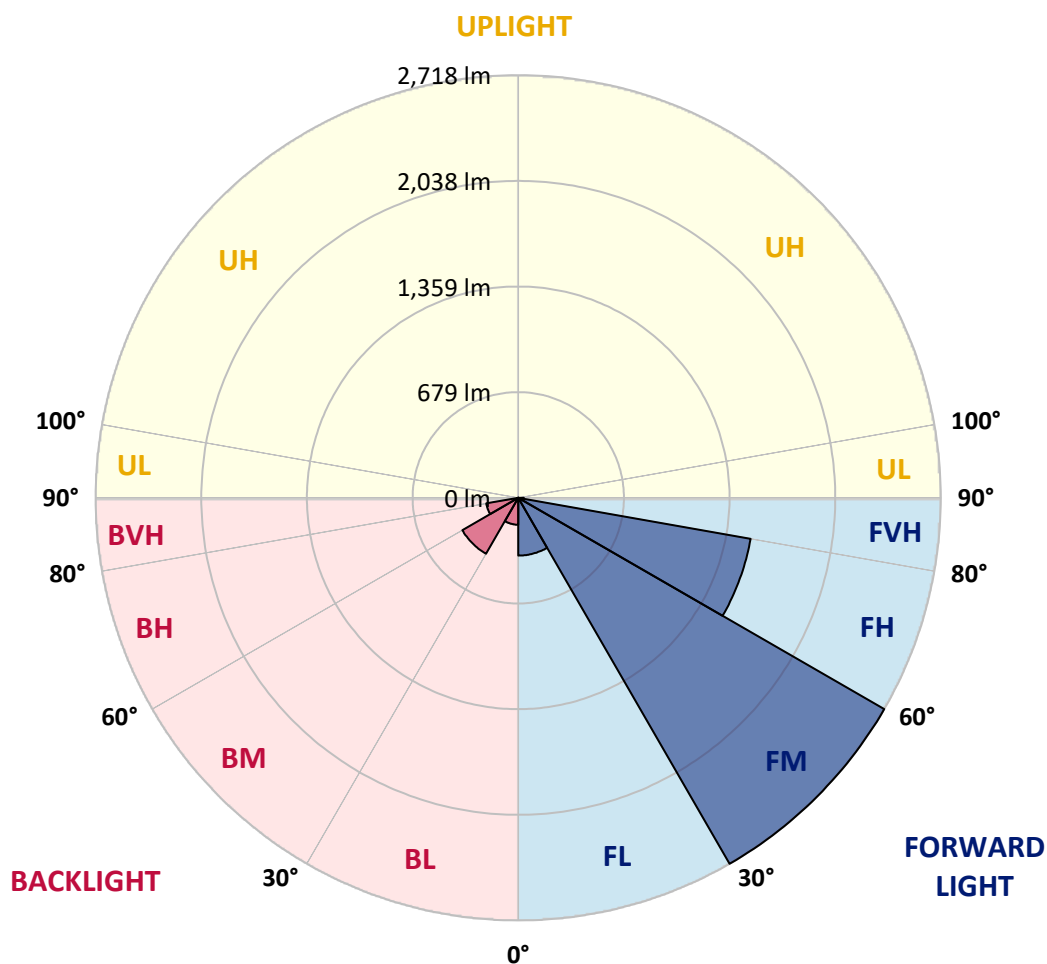
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	371.5	6.8			
FM	(30°-60°)	2718.0	49.9			
FH	(60°-80°)	1517.4	27.9			G1/1800
FVH	(80°-90°)	35.8	0.7			G1/100
BL	(0°-30°)	173.1	3.2	B1/500		
BM	(30°-60°)	415.2	7.6	B1/1000		
BH	(60°-80°)	208.9	3.8	B1/500		G1/500
BVH	(80°-90°)	2.9	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	671.8	671.8	671.8	671.8	671.8	671.8	671.8	671.8	671.8	671.8	671.8
2.5°	687.5	685.6	688.2	687.1	686.3	684.8	684.1	683.4	681.8	680.7	676.2
5°	689.3	688.2	690.8	693.1	695.4	697.6	698.7	700.2	698.7	695.7	691.3
7.5°	673.6	672.9	678.4	685.2	695.4	704.0	713.3	718.5	718.9	717.8	712.9
10°	672.5	670.7	676.2	684.5	697.6	712.9	729.4	740.7	742.1	747.0	741.8
12.5°	690.1	688.2	696.1	705.1	718.5	734.6	754.9	770.6	772.8	779.6	775.8
15°	719.7	717.1	726.0	737.6	754.9	773.3	794.6	808.8	810.7	818.9	812.1
17.5°	754.1	751.5	762.0	774.3	793.0	818.2	842.9	858.5	860.8	866.0	853.7
20°	798.3	794.9	803.2	814.4	834.2	864.2	893.8	916.2	915.8	915.8	895.6
22.5°	849.6	844.4	851.5	860.5	879.1	915.5	954.8	981.4	981.4	970.9	937.6
25°	904.7	899.4	907.2	915.5	931.9	973.1	1019.3	1052.2	1053.7	1035.7	982.6
27.5°	973.5	966.8	972.8	982.6	992.3	1034.2	1088.9	1127.1	1127.8	1100.1	1025.2
30°	1106.1	1087.0	1068.3	1057.8	1062.3	1103.8	1162.2	1204.6	1208.3	1170.1	1071.6
32.5°	1348.7	1345.0	1279.1	1193.0	1148.0	1178.8	1244.2	1295.2	1297.4	1248.3	1131.9
35°	1725.8	1721.3	1615.3	1451.3	1304.9	1279.1	1343.9	1404.1	1402.6	1347.3	1210.2
37.5°	2175.9	2171.8	2032.1	1812.6	1575.6	1430.7	1472.3	1535.6	1544.9	1472.3	1311.3
40°	2560.3	2545.1	2456.7	2245.2	1935.1	1682.3	1655.0	1697.0	1706.7	1620.5	1439.7
42.5°	2851.8	2838.6	2793.6	2661.5	2370.2	2054.5	1870.3	1886.4	1897.3	1794.0	1587.2
45°	3002.6	2999.6	3017.6	3005.2	2813.5	2511.4	2178.1	2111.1	2115.2	1986.0	1754.6
47.5°	3024.0	3022.4	3104.4	3220.5	3194.7	3026.5	2573.2	2391.1	2376.6	2202.8	1936.5
50°	2898.1	2895.1	3052.4	3270.0	3449.3	3459.4	3021.7	2706.8	2674.6	2427.1	2126.5
52.5°	2496.4	2495.6	2754.0	3116.1	3538.8	3838.3	3465.0	3053.5	2999.6	2664.5	2327.2
55°	1920.8	1934.7	2230.9	2658.8	3375.5	4020.7	3863.0	3438.5	3355.6	2903.4	2512.1
57.5°	1360.7	1380.9	1673.7	2054.9	2869.3	3912.8	4132.3	3824.1	3735.0	3141.5	2699.6
60°	730.9	748.9	1042.0	1497.0	2134.7	3510.7	4274.1	4158.8	4074.6	3367.6	2869.0
62.5°	435.4	441.5	562.8	966.4	1443.8	2682.1	4213.9	4413.9	4344.6	3557.5	3016.1
65°	312.6	313.8	374.8	590.1	876.6	1629.5	3791.2	4535.9	4514.6	3700.6	3125.0
67.5°	263.2	262.5	287.9	392.1	597.3	816.3	2905.7	4363.3	4453.9	3791.2	3186.8
70°	225.8	226.9	256.9	287.2	449.0	462.1	1444.5	3799.1	3992.3	3815.2	3183.0
72.5°	168.1	171.9	199.6	261.7	338.9	317.9	498.8	2816.9	3166.2	3594.6	3017.9
75°	118.7	120.5	140.4	220.2	252.8	231.4	254.6	1456.2	1904.0	2755.8	2470.1
77.5°	91.3	94.7	106.3	153.9	249.0	162.5	155.8	504.0	774.3	1664.7	1693.6
80°	49.4	55.5	76.8	111.2	174.9	114.9	77.2	200.7	262.5	778.5	653.0
82.5°	25.4	28.5	53.5	80.2	99.6	100.3	38.2	83.5	108.2	240.4	89.5
85°	10.1	12.4	36.0	44.2	51.2	49.4	17.2	33.7	38.9	66.6	27.4
87.5°	2.3	3.8	13.1	10.1	9.7	10.5	4.1	7.9	7.5	7.9	4.8
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°	671.8	671.8	671.8	671.8	671.8	671.8	671.8	671.8	671.8	671.8	671.8
2.5°	675.9	674.3	670.2	665.7	660.5	657.5	655.6	655.3	652.6	650.8	652.6
5°	687.1	685.6	677.7	668.4	658.3	650.4	642.9	636.2	626.5	624.5	623.8
7.5°	709.5	705.4	692.7	680.0	660.9	638.1	610.3	578.5	550.0	541.4	537.3
10°	737.3	731.6	715.6	693.1	650.8	588.7	521.6	459.4	410.0	396.2	390.9
12.5°	768.7	763.8	742.5	700.9	608.4	495.8	393.2	316.0	268.1	256.1	252.8
15°	806.2	799.1	769.5	689.0	532.8	376.7	270.0	224.3	207.0	204.8	202.5
17.5°	845.8	834.2	793.5	645.9	431.0	267.7	208.6	195.5	188.0	185.7	184.6
20°	882.2	867.2	807.7	580.8	322.1	208.6	186.9	178.2	171.5	168.9	167.4
22.5°	918.5	897.2	807.7	492.0	241.5	185.0	171.5	163.6	155.8	152.4	150.6
25°	956.3	927.8	793.5	393.2	194.3	169.6	156.9	148.3	141.6	137.5	135.9
27.5°	993.0	953.7	760.9	299.5	173.0	156.1	143.4	135.2	128.8	125.8	125.8
30°	1027.9	979.2	715.1	227.2	159.2	143.0	131.1	123.9	117.6	114.6	114.9
32.5°	1075.0	1011.4	666.5	186.4	147.2	130.7	119.8	113.1	107.4	105.3	105.3
35°	1140.5	1058.9	624.5	183.1	137.0	120.5	109.7	103.3	97.7	95.8	95.8
37.5°	1233.4	1135.7	602.5	205.6	128.8	111.6	101.5	94.7	89.5	87.9	87.6
40°	1348.0	1239.7	614.5	228.1	123.2	103.7	94.0	87.2	82.7	80.9	80.5
42.5°	1483.9	1368.2	680.7	245.3	119.4	97.0	86.9	79.3	76.4	75.6	75.6
45°	1640.0	1509.3	782.2	263.6	113.5	90.6	79.7	74.1	71.9	71.5	71.1
47.5°	1817.5	1664.4	899.7	286.5	107.4	84.7	74.1	70.4	68.6	67.8	67.8
50°	1993.5	1820.5	1020.7	299.2	102.6	79.0	69.6	66.6	65.2	64.8	64.8
52.5°	2177.7	1981.1	1118.5	287.2	98.5	74.5	65.9	63.7	62.1	61.8	61.8
55°	2353.3	2111.1	1135.3	243.7	90.2	70.0	61.8	60.7	58.8	58.8	58.4
57.5°	2504.6	2176.2	1016.2	179.0	82.0	63.2	57.7	56.6	55.0	54.6	54.3
60°	2643.5	2157.5	784.4	120.5	73.0	56.6	52.4	51.7	50.2	48.3	48.0
62.5°	2721.8	2075.1	536.6	78.6	64.1	49.4	46.4	46.0	42.6	38.9	38.2
65°	2751.3	1905.9	334.8	57.3	53.5	42.3	40.1	39.4	34.4	30.3	29.9
67.5°	2725.5	1627.3	168.9	45.3	42.3	35.2	32.9	32.9	29.6	25.8	25.4
70°	2622.2	1220.0	71.1	36.3	32.6	27.0	27.0	28.5	25.1	21.0	20.6
72.5°	2397.9	820.7	37.8	27.7	24.3	19.1	22.1	23.2	19.9	15.7	15.7
75°	1906.3	500.6	26.2	20.6	15.4	13.5	16.8	17.6	13.5	10.5	10.1
77.5°	1303.8	287.6	17.6	13.1	9.7	7.9	11.6	10.9	7.1	4.8	5.2
80°	572.5	119.8	10.1	5.9	3.8	3.0	4.1	3.0	2.3	1.5	1.5
82.5°	67.0	28.1	3.8	2.3	1.5	0.7	0.4	0.0	0.0	0.0	0.0
85°	13.8	3.4	1.8	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.7	0.4	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)