

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: P960516

Luminaire Tested: **NAV-SB1C-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-830-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5224.4 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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



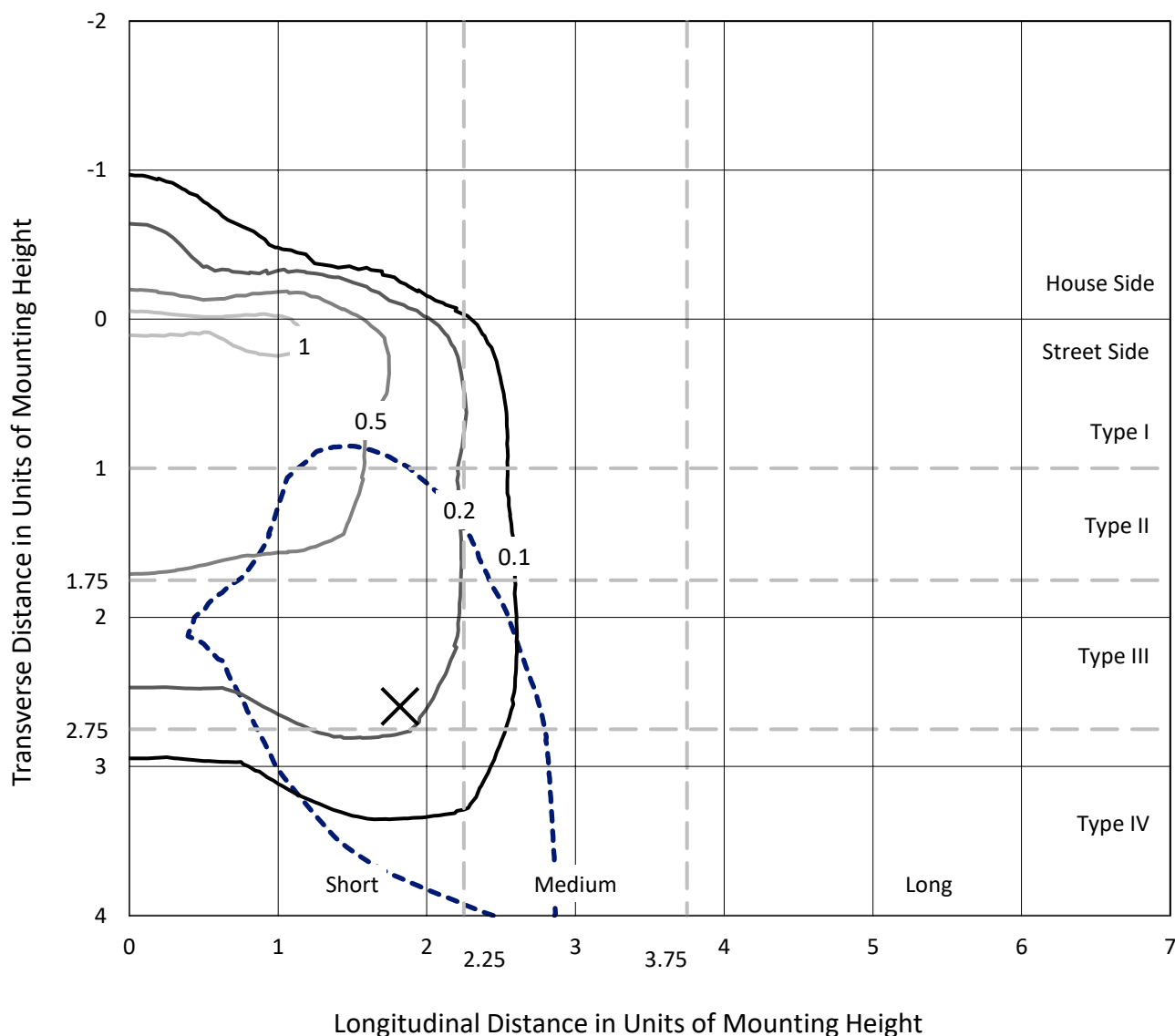
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

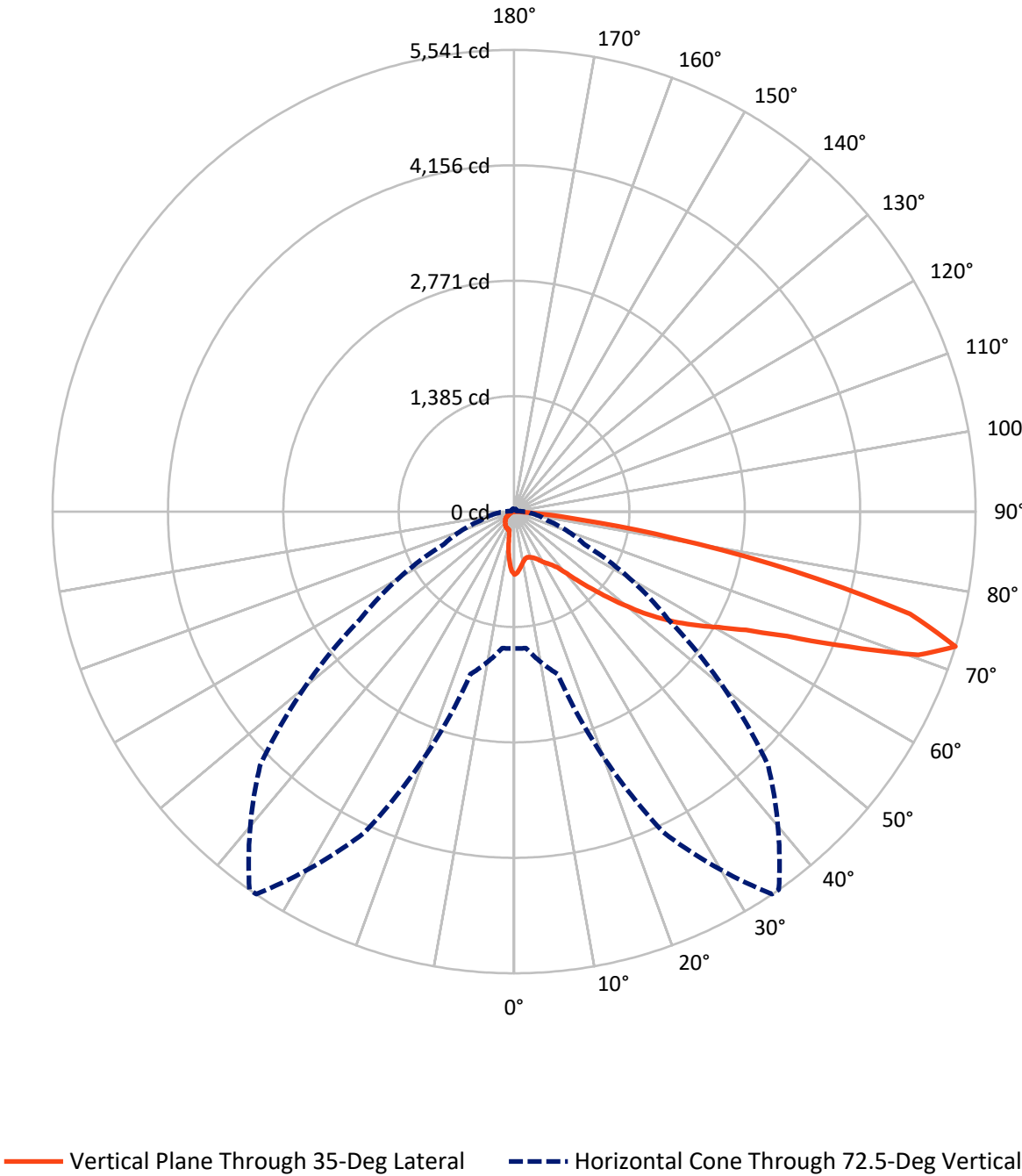


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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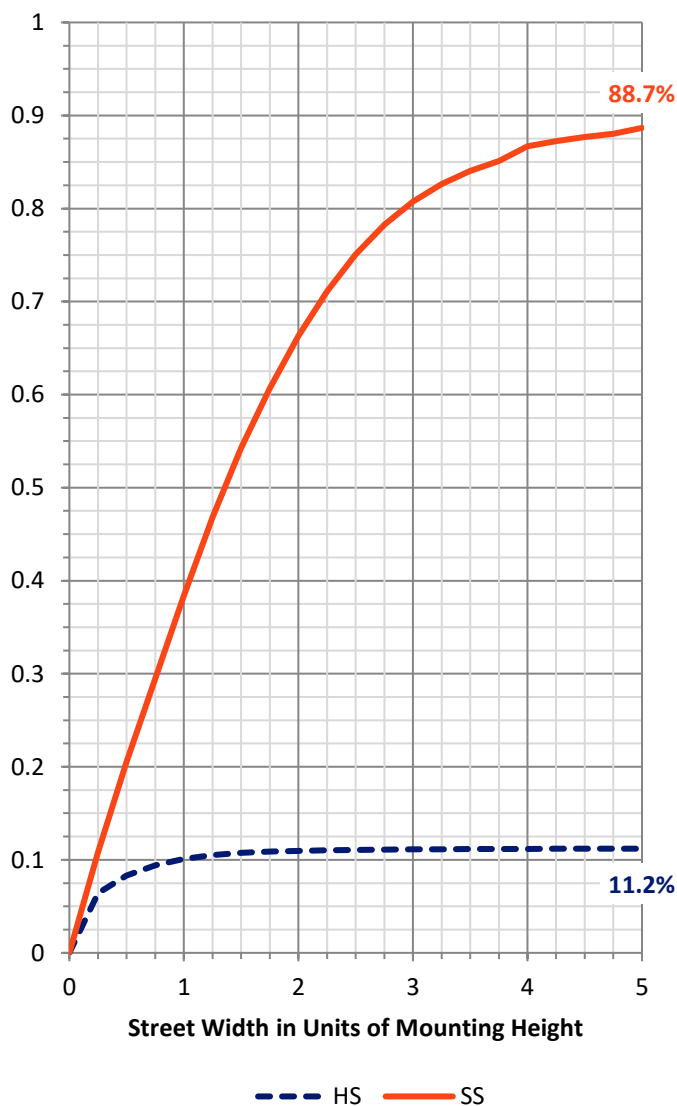
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	588.0	0.0	588.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	4636.4	0.0	4636.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	5224.4	0.0	5224.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	1.2
10°-20°	145.6	2.8
20°-30°	236.5	4.5
30°-40°	394.5	7.6
40°-50°	746.4	14.3
50°-60°	1186.1	22.7
60°-70°	1467.3	28.1
70°-80°	912.1	17.5
80°-90°	73.7	1.4
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°	5224.4	100.0
0°-180°	5224.4	100.0

Coefficient of Utilization



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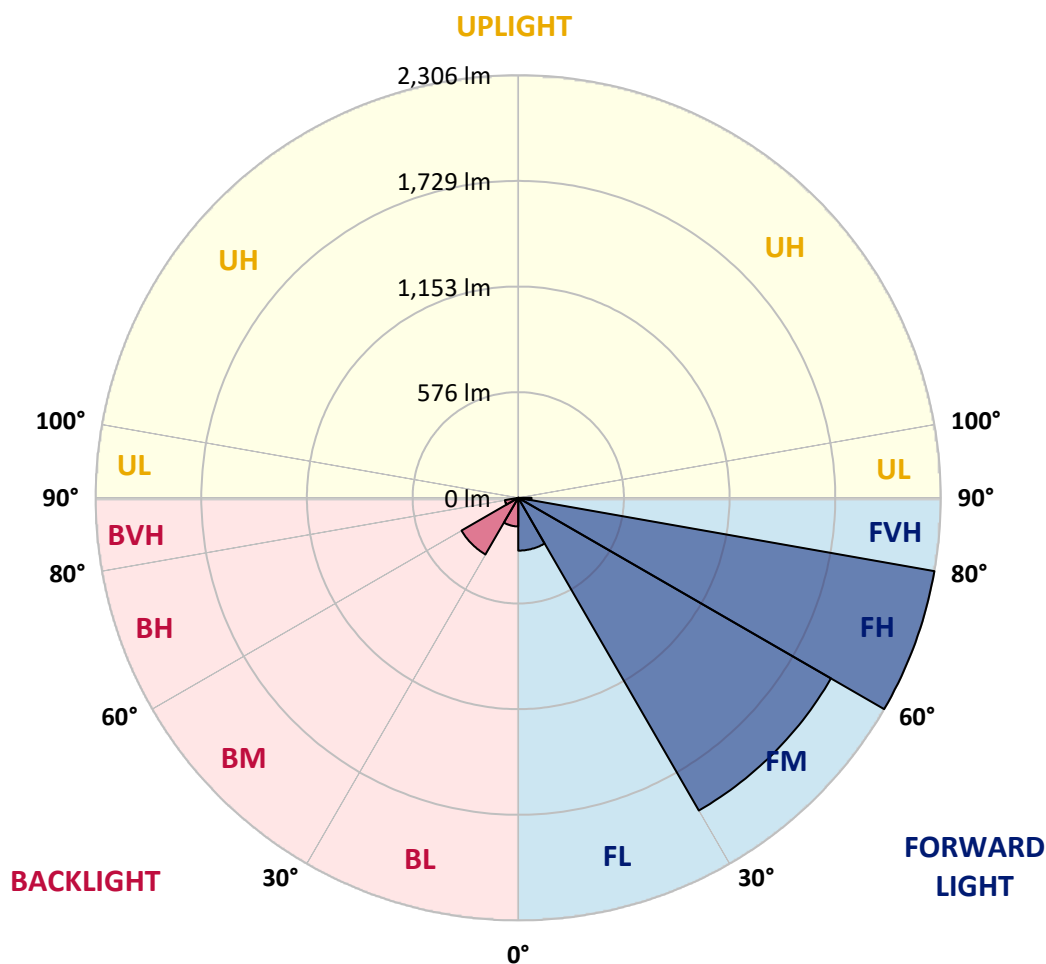
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	288.0	5.5			
FM	(30°-60°)	1970.1	37.7			
FH	(60°-80°)	2305.6	44.1			G2/5000
FVH	(80°-90°)	72.7	1.4			G1/100
BL	(0°-30°)	156.2	3.0	B1/500		
BM	(30°-60°)	357.0	6.8	B1/1000		
BH	(60°-80°)	73.8	1.4	B0/110		G0/110
BVH	(80°-90°)	1.0	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2
2.5°	723.5	729.6	730.8	732.7	732.7	735.0	738.8	744.2	753.0	757.6	760.7
5°	666.9	671.5	677.2	681.8	690.5	691.8	706.6	721.2	741.5	756.9	767.5
7.5°	609.8	615.2	622.8	634.0	645.4	648.8	671.5	696.0	728.1	756.9	774.8
10°	569.6	570.0	576.9	588.0	606.4	610.6	638.2	673.0	713.2	752.2	781.7
12.5°	547.0	549.7	552.8	561.2	578.8	581.5	611.0	651.9	698.2	749.6	789.8
15°	547.0	549.0	550.8	555.0	569.3	571.5	597.6	638.6	690.5	750.7	802.8
17.5°	552.8	555.9	554.3	559.2	574.2	575.7	598.7	634.7	690.2	758.0	822.7
20°	566.5	568.9	565.8	568.9	583.7	586.8	610.6	642.0	696.7	770.6	847.6
22.5°	588.3	589.5	582.2	584.6	599.8	603.7	631.3	662.7	712.4	790.9	880.9
25°	615.9	618.3	607.1	609.8	624.3	628.9	660.7	693.6	737.3	818.9	923.3
27.5°	647.7	648.8	639.3	638.9	657.6	664.2	696.3	732.0	770.6	854.0	976.9
30°	684.1	687.6	678.3	676.8	700.6	705.9	737.7	779.0	819.6	906.9	1053.1
32.5°	712.8	715.4	710.1	713.9	738.1	742.3	787.8	845.6	896.6	982.0	1156.8
35°	754.1	755.6	743.4	750.3	777.9	788.6	856.4	939.0	993.4	1076.0	1292.3
37.5°	903.8	903.8	851.8	817.6	844.1	853.6	950.2	1056.6	1112.8	1202.4	1463.1
40°	1110.9	1107.5	1031.3	961.7	958.2	976.9	1083.7	1204.7	1267.1	1354.0	1655.3
42.5°	1331.8	1326.5	1222.7	1153.7	1142.3	1148.8	1238.0	1387.3	1450.9	1538.9	1862.0
45°	1527.8	1526.2	1431.3	1338.6	1318.0	1338.6	1430.6	1600.9	1646.5	1739.1	2068.3
47.5°	1692.0	1692.0	1622.7	1562.2	1551.5	1563.7	1691.2	1837.8	1833.6	1952.3	2269.2
50°	1881.1	1879.5	1813.7	1787.7	1798.8	1816.0	1991.4	2087.4	2027.3	2161.7	2448.8
52.5°	2013.6	2022.7	2000.2	1996.0	2052.7	2082.5	2296.1	2331.7	2200.8	2360.4	2583.2
55°	2118.5	2129.1	2155.2	2184.7	2293.7	2332.8	2591.2	2563.3	2345.8	2532.7	2660.5
57.5°	2267.0	2251.7	2291.9	2350.0	2526.5	2573.6	2877.2	2781.8	2462.6	2672.4	2668.9
60°	2447.3	2449.5	2456.5	2530.0	2758.9	2819.4	3158.9	2988.6	2537.6	2758.2	2575.5
62.5°	2664.0	2667.4	2681.6	2794.5	3070.9	3127.9	3459.1	3157.8	2572.1	2734.0	2334.3
65°	2649.0	2663.6	2821.7	3207.9	3545.2	3601.4	3809.3	3276.4	2520.1	2513.5	1900.7
67.5°	2413.3	2436.9	2701.5	3701.8	4260.3	4323.0	4232.7	3299.8	2295.3	1954.6	1239.9
70°	2103.9	2112.3	2430.5	4145.8	5088.3	5151.9	4611.7	3042.9	1741.8	1090.2	555.4
72.5°	1643.0	1644.9	2018.1	4248.8	5537.7	5541.2	4314.2	2259.0	936.7	418.8	192.9
75°	1173.7	1162.2	1351.7	3445.6	4872.0	4911.1	3234.4	1059.6	357.9	197.9	96.0
77.5°	629.3	642.0	764.9	2043.4	3365.7	3432.2	1764.7	305.4	182.2	134.8	63.6
80°	194.4	205.2	313.5	935.6	1906.4	1946.6	654.3	135.9	127.1	96.0	41.7
82.5°	61.3	63.6	146.3	393.2	791.3	809.6	189.5	77.0	86.9	63.6	24.5
85°	17.6	18.0	65.1	146.6	195.6	199.5	53.2	29.8	49.8	39.5	12.6
87.5°	1.9	6.1	24.5	24.5	17.2	16.8	5.7	6.5	14.1	5.0	2.3
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°	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2
2.5°	758.7	759.1	754.1	745.7	736.6	728.9	719.3	711.7	706.3	704.8	707.5
5°	764.0	761.4	747.2	721.6	691.0	664.5	635.1	611.7	596.4	589.9	592.2
7.5°	772.1	764.4	733.5	683.0	624.3	572.3	519.5	478.5	452.4	439.4	441.4
10°	779.0	763.7	710.5	627.0	537.5	458.6	387.4	338.0	310.5	297.5	297.9
12.5°	785.6	763.3	680.6	560.8	439.4	343.0	276.8	252.3	244.6	241.9	241.2
15°	797.8	764.4	643.1	485.0	341.8	259.1	235.0	234.6	236.2	235.4	235.0
17.5°	814.6	765.6	600.6	404.7	263.7	228.6	227.3	230.8	233.1	232.0	231.6
20°	836.4	770.2	555.4	325.0	226.6	220.9	223.6	226.6	228.6	226.6	226.2
22.5°	867.0	778.3	506.0	261.1	214.7	216.3	218.6	222.0	224.0	221.3	220.9
25°	904.6	790.9	457.5	227.0	209.0	210.9	214.3	218.2	220.5	217.8	217.4
27.5°	953.1	811.2	412.7	219.4	203.3	204.4	209.4	215.1	218.2	214.7	214.7
30°	1023.7	844.5	374.0	222.8	199.9	197.1	204.1	212.1	215.6	212.5	212.1
32.5°	1117.0	891.5	350.2	228.2	198.3	188.7	195.3	205.6	211.4	209.4	209.4
35°	1239.5	963.2	341.1	234.3	197.1	179.9	184.5	195.6	205.6	207.5	207.5
37.5°	1388.1	1062.7	343.8	237.0	193.7	172.6	175.0	184.5	197.5	203.7	205.2
40°	1556.9	1178.6	359.1	234.3	189.8	166.6	166.9	174.1	185.6	194.9	197.9
42.5°	1731.0	1314.2	387.4	224.4	186.4	161.1	160.0	165.0	172.6	179.2	181.8
45°	1896.9	1453.6	415.3	210.5	182.2	155.8	153.1	155.1	156.5	159.3	160.8
47.5°	2041.5	1551.5	407.3	197.9	176.5	149.6	145.0	144.3	139.7	139.3	139.0
50°	2141.4	1573.0	361.7	185.3	168.1	142.8	135.5	130.9	122.9	119.0	119.4
52.5°	2173.2	1488.4	295.5	172.6	154.3	133.6	123.3	116.0	106.1	102.6	102.2
55°	2131.1	1322.6	236.2	157.3	135.1	121.4	109.9	100.2	92.2	88.0	88.0
57.5°	2028.2	1111.7	186.9	139.3	114.8	107.5	96.0	86.5	79.6	75.4	74.6
60°	1857.4	882.7	147.8	117.9	98.0	92.7	80.8	74.6	68.6	63.6	62.4
62.5°	1598.2	630.1	116.0	93.4	81.9	75.7	68.9	64.3	57.0	50.1	49.0
65°	1247.2	385.5	89.6	68.6	65.8	62.7	58.5	54.3	45.5	38.6	37.5
67.5°	786.7	182.6	64.0	51.7	52.1	50.5	48.6	45.2	38.6	32.5	31.8
70°	346.4	88.5	42.1	39.5	38.6	38.6	40.2	39.1	32.9	27.2	26.0
72.5°	117.9	47.5	31.4	29.8	28.0	27.6	33.7	32.5	26.4	21.0	19.9
75°	61.6	31.8	23.0	21.4	16.8	20.3	26.8	25.2	18.8	13.7	12.6
77.5°	40.2	22.5	15.7	13.7	9.5	13.4	19.9	17.6	11.1	6.9	6.1
80°	25.2	15.0	9.2	6.5	4.6	7.3	10.8	7.7	4.2	1.5	1.1
82.5°	13.4	7.7	3.5	2.3	1.9	2.3	2.7	1.9	0.7	0.0	0.0
85°	5.3	2.7	1.1	0.7	0.4	0.0	0.7	0.4	0.0	0.0	0.0
87.5°	1.9	0.4	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)