

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: P959363

Luminaire Tested: **NAV-SB1A-750-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-750-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4931.3 lumens
Efficiency: N/A
Efficacy: 159.6 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): 30.9
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

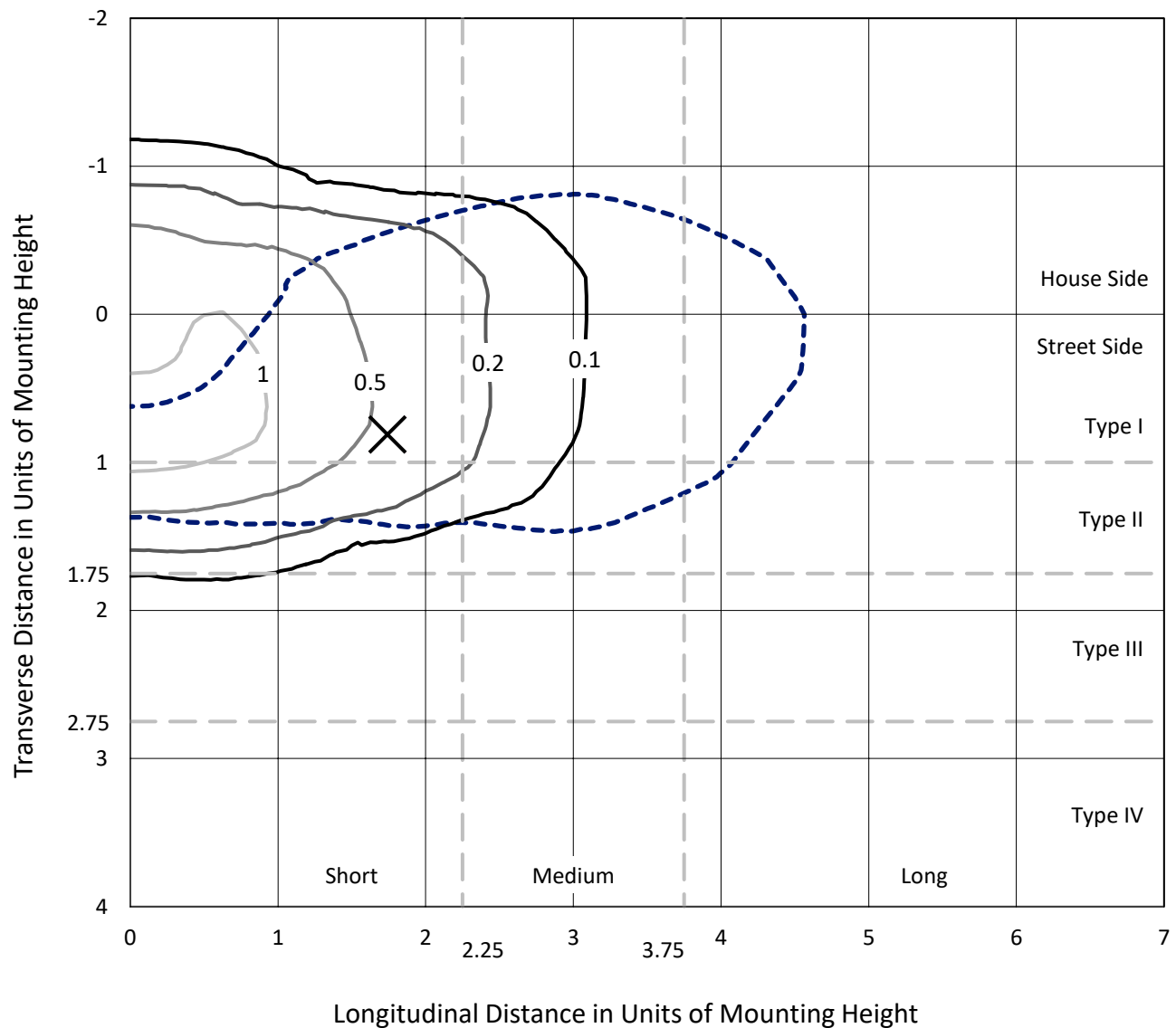


REPORT NUMBER: P959363

CATALOG NUMBER: NAV-SB1A-750-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

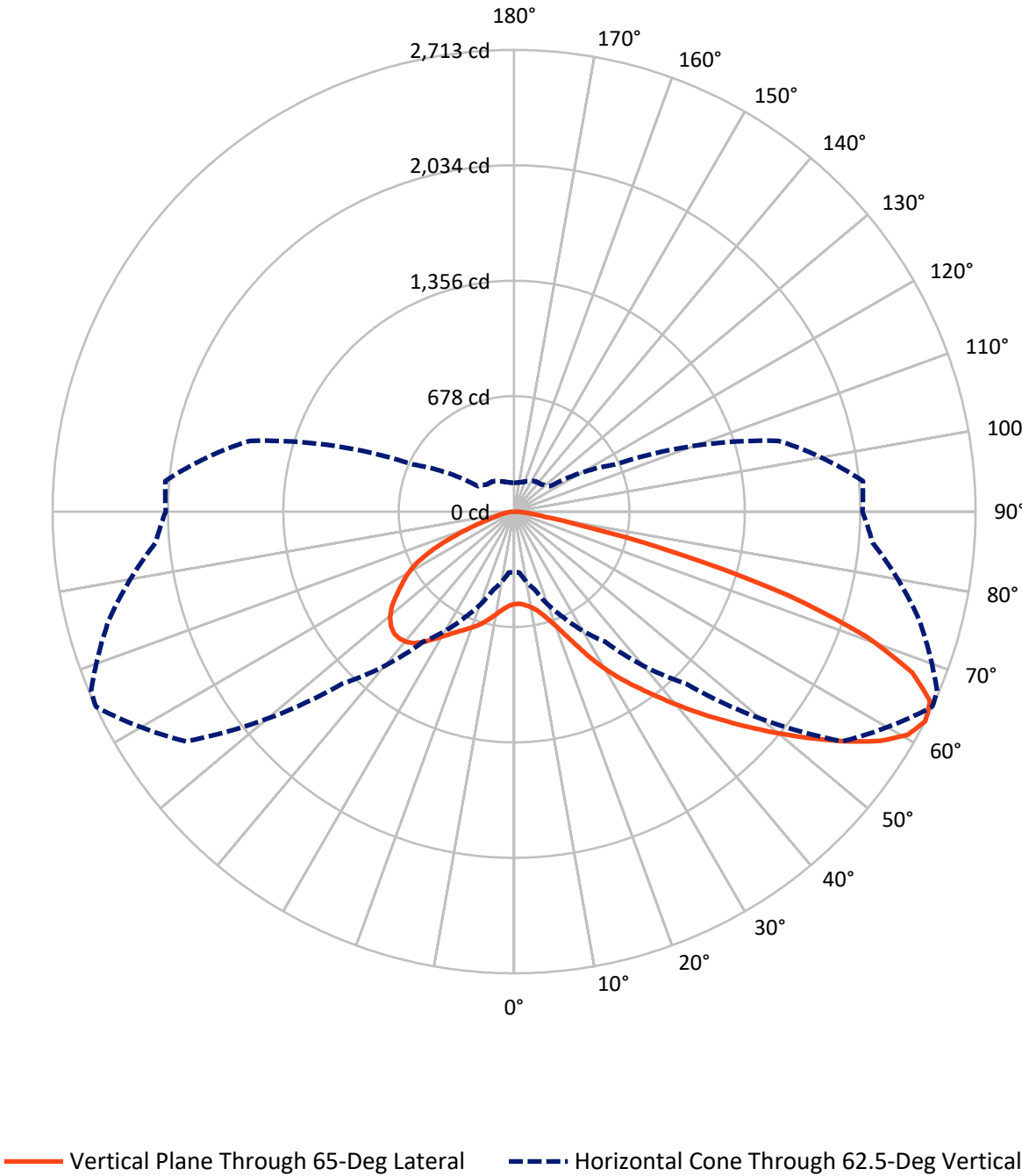
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type II - Short - N/A

REPORT NUMBER: P959363
CATALOG NUMBER: NAV-SB1A-750-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P959363

CATALOG NUMBER: NAV-SB1A-750-U-T2U

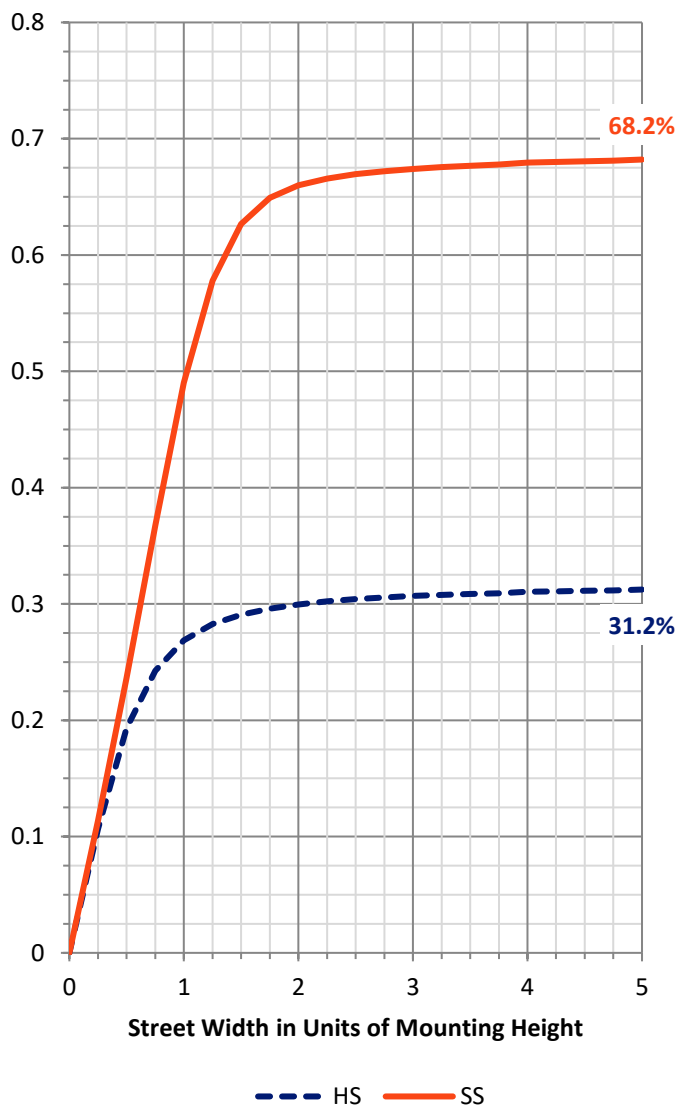
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1556.1	0.0	1556.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	3375.2	0.0	3375.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	4931.3	0.0	4931.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	1.1
10°-20°	183.7	3.7
20°-30°	372.5	7.6
30°-40°	644.6	13.1
40°-50°	975.5	19.8
50°-60°	1143.7	23.2
60°-70°	958.9	19.4
70°-80°	529.4	10.7
80°-90°	68.8	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°	4931.3	100.0
0°-180°	4931.3	100.0

Coefficient of Utilization



REPORT NUMBER: P959363

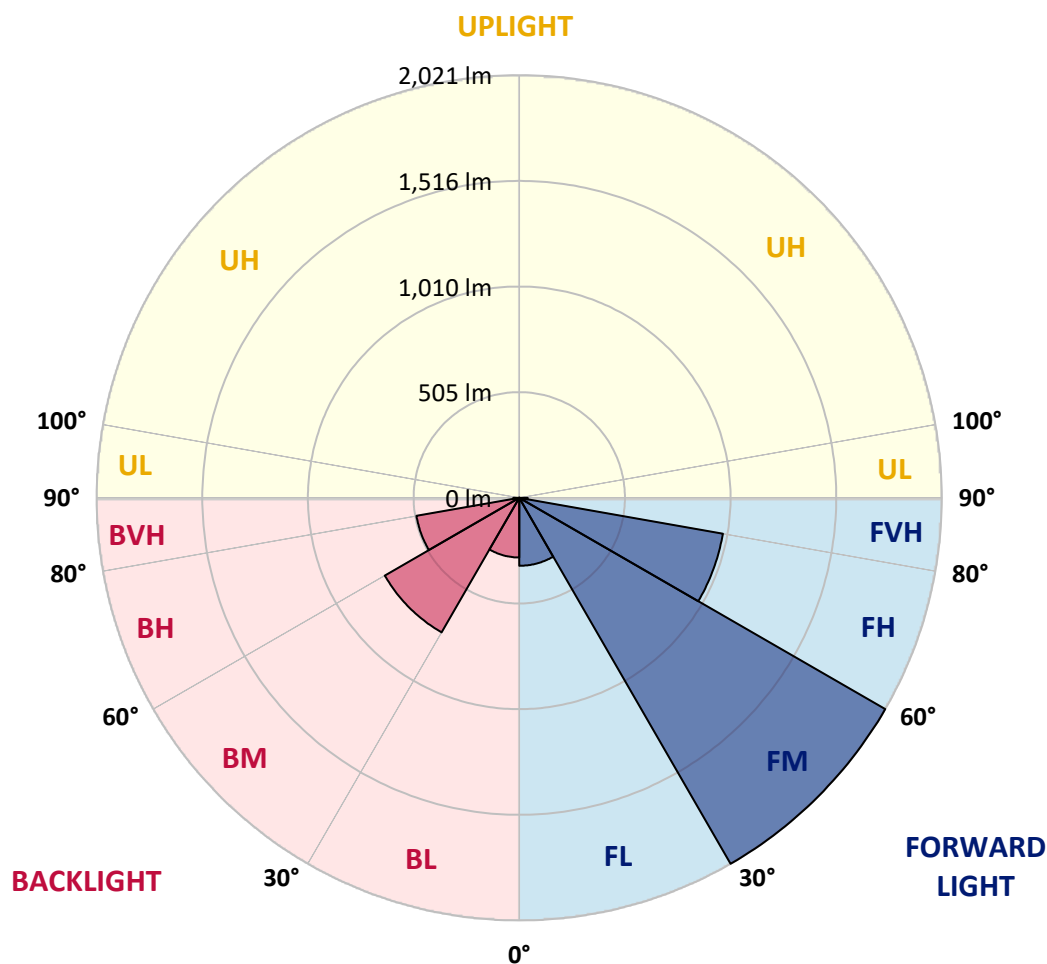
CATALOG NUMBER: NAV-SB1A-750-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	325.0	6.6			
FM	(30°-60°)	2021.0	41.0			
FH	(60°-80°)	989.1	20.1			G1/1800
FVH	(80°-90°)	40.1	0.8			G1/100
BL	(0°-30°)	285.4	5.8	B1/500		
BM	(30°-60°)	742.9	15.1	B1/1000		
BH	(60°-80°)	499.2	10.1	B1/500		G1/500
BVH	(80°-90°)	28.7	0.6			G1/100
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



REPORT NUMBER: P959363

CATALOG NUMBER: NAV-SB1A-750-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	543.5	543.5	543.5	543.5	543.5	543.5	543.5	543.5	543.5	543.5	543.5
2.5°	539.9	538.3	539.6	539.6	540.1	539.9	541.6	542.1	542.9	544.4	544.4
5°	534.4	534.2	536.5	538.5	540.6	542.4	544.7	548.0	548.5	550.3	552.6
7.5°	532.7	531.2	534.7	537.3	542.1	546.4	552.6	558.2	560.6	561.3	565.7
10°	546.4	544.0	547.2	548.8	552.9	557.2	564.4	573.4	575.9	578.9	583.8
12.5°	570.0	567.2	572.1	574.4	578.2	582.0	586.9	595.6	596.9	602.5	607.1
15°	602.3	598.9	602.0	604.9	611.2	614.8	619.6	628.1	628.1	632.4	635.8
17.5°	646.0	641.6	643.9	644.9	649.0	654.5	662.7	670.0	673.8	672.3	667.8
20°	711.2	705.8	705.8	700.8	699.3	703.6	714.3	724.6	728.7	720.7	709.4
22.5°	809.2	801.6	797.2	779.8	772.8	773.4	784.1	796.7	800.0	786.0	760.7
25°	933.8	921.8	915.9	890.3	874.7	861.2	869.6	885.7	890.3	872.9	832.0
27.5°	1058.4	1059.1	1053.6	1022.8	997.0	972.2	967.8	984.7	989.6	969.9	919.2
30°	1233.2	1215.0	1204.3	1167.4	1130.6	1095.7	1077.9	1084.8	1086.1	1062.5	1003.7
32.5°	1383.9	1379.2	1356.2	1324.0	1276.6	1222.1	1192.2	1181.2	1179.2	1145.6	1075.8
35°	1555.5	1553.0	1528.7	1490.2	1439.1	1363.4	1309.4	1278.0	1275.4	1228.3	1147.2
37.5°	1730.0	1730.0	1706.2	1664.3	1611.3	1516.6	1434.5	1384.6	1376.5	1315.0	1219.9
40°	1869.2	1860.7	1865.1	1847.5	1786.8	1686.2	1573.4	1501.0	1490.0	1416.3	1297.1
42.5°	1948.2	1945.4	1971.5	1991.2	1966.4	1886.1	1726.4	1627.2	1611.8	1527.9	1386.1
45°	1965.8	1962.8	2009.4	2081.5	2116.3	2083.3	1892.7	1759.9	1741.3	1644.5	1481.5
47.5°	1925.2	1919.1	1987.4	2101.2	2212.8	2270.9	2072.9	1903.9	1876.9	1758.2	1579.5
50°	1802.9	1797.0	1900.4	2051.5	2245.3	2398.3	2268.3	2056.7	2015.3	1880.0	1678.5
52.5°	1537.1	1539.9	1701.8	1909.6	2202.5	2477.5	2436.6	2217.6	2167.8	2004.5	1771.4
55°	1197.3	1203.5	1402.5	1631.3	2031.7	2465.5	2551.5	2383.4	2333.8	2121.6	1867.3
57.5°	857.3	884.5	1070.9	1297.3	1703.3	2274.9	2576.5	2541.0	2492.9	2249.6	1961.2
60°	555.7	560.6	752.5	980.6	1297.1	1936.2	2525.7	2660.5	2622.9	2380.0	2039.9
62.5°	356.1	359.5	476.4	685.9	933.6	1432.4	2354.2	2712.5	2700.9	2466.3	2115.3
65°	261.7	259.1	320.1	453.4	628.8	883.4	2021.4	2687.3	2710.1	2520.3	2177.7
67.5°	218.5	214.9	244.9	314.0	463.3	501.7	1495.7	2524.4	2607.8	2514.1	2223.5
70°	199.1	196.0	214.1	233.1	361.5	335.9	754.0	2194.6	2323.1	2444.3	2216.0
72.5°	168.6	163.2	188.1	206.9	281.2	257.6	311.6	1685.7	1842.3	2220.5	2111.7
75°	130.7	127.2	148.4	182.1	211.4	201.1	197.0	1023.7	1194.5	1717.2	1847.5
77.5°	103.6	98.7	118.2	142.0	190.1	151.7	143.5	440.9	610.2	1096.2	1382.3
80°	78.0	73.7	89.8	112.3	146.1	114.4	92.9	179.9	230.0	555.4	695.2
82.5°	55.6	51.7	62.7	82.4	98.2	102.6	57.1	100.8	113.4	214.1	155.3
85°	35.6	33.2	41.9	51.7	62.4	66.0	34.7	52.7	57.8	88.3	64.7
87.5°	19.5	15.9	22.5	24.1	28.9	26.3	16.6	19.2	20.7	32.0	27.4
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: P959363

CATALOG NUMBER: NAV-SB1A-750-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	543.5	543.5	543.5	543.5	543.5	543.5	543.5	543.5	543.5	543.5	543.5
2.5°	545.4	546.2	548.8	549.5	551.3	553.6	555.1	556.7	556.7	558.2	558.2
5°	552.9	554.6	560.1	562.8	567.4	572.1	574.9	578.2	580.3	581.3	581.8
7.5°	567.2	570.0	577.7	582.5	590.5	596.9	601.3	605.9	606.9	609.7	608.6
10°	586.6	590.0	598.7	607.9	617.4	625.2	629.3	632.7	634.0	634.5	633.2
12.5°	608.8	613.8	625.0	636.3	646.3	653.1	654.2	653.4	649.8	646.8	646.8
15°	636.3	640.6	653.1	665.4	675.2	676.4	670.0	665.9	661.6	660.8	660.8
17.5°	669.0	671.4	682.9	694.8	695.7	691.3	681.8	677.9	673.8	671.1	671.4
20°	707.1	706.3	714.5	719.7	714.3	701.0	686.6	680.3	676.2	672.8	673.1
22.5°	752.7	746.8	745.8	744.5	730.2	702.3	682.9	674.7	668.3	663.7	665.2
25°	819.0	796.4	780.8	772.1	739.8	695.4	670.6	652.4	640.3	632.4	635.5
27.5°	901.8	864.0	824.6	803.3	739.8	681.3	640.8	611.4	591.7	583.5	587.6
30°	980.9	941.3	883.1	840.9	738.1	658.3	593.1	552.1	529.1	520.9	525.7
32.5°	1048.5	1005.2	945.4	882.1	733.8	620.9	533.7	488.4	466.2	456.4	461.2
35°	1111.1	1065.1	1007.8	927.4	722.2	566.2	468.4	433.9	409.1	393.5	398.6
37.5°	1175.4	1120.5	1066.8	968.3	701.5	502.2	418.3	388.9	359.7	338.8	344.4
40°	1245.2	1179.7	1130.1	992.6	667.5	441.4	379.5	352.5	321.5	299.3	303.7
42.5°	1326.8	1250.5	1200.4	1005.2	620.9	398.1	354.0	327.7	298.6	280.4	284.0
45°	1411.9	1328.6	1264.6	1004.9	569.0	377.9	345.9	319.8	287.6	268.7	271.7
47.5°	1501.3	1410.2	1320.1	988.6	524.0	380.7	341.3	302.7	267.1	248.7	251.2
50°	1590.8	1499.5	1373.9	957.9	504.8	374.5	324.1	278.6	236.7	220.1	221.1
52.5°	1679.6	1594.4	1420.1	914.1	485.3	351.8	302.2	247.4	224.1	212.6	212.6
55°	1768.8	1688.3	1470.6	850.4	436.8	325.1	265.3	235.6	214.1	203.7	202.6
57.5°	1858.4	1796.7	1518.4	786.7	375.6	292.4	245.1	221.3	204.2	195.2	193.6
60°	1951.6	1920.8	1567.8	728.2	315.2	250.5	230.2	209.8	192.4	182.4	181.6
62.5°	2047.5	2057.5	1606.4	652.6	259.6	224.9	217.0	196.0	179.1	169.6	169.3
65°	2144.2	2189.2	1631.8	548.0	210.5	200.6	202.6	180.9	163.7	155.6	155.3
67.5°	2217.1	2284.1	1624.6	414.7	172.7	177.5	184.7	165.0	148.9	142.5	142.8
70°	2225.3	2272.9	1554.0	284.0	144.5	155.1	164.7	149.4	132.7	128.1	128.4
72.5°	2116.3	2119.4	1357.2	185.5	122.3	136.1	143.8	133.6	117.5	112.9	112.5
75°	1830.5	1752.7	996.5	122.3	102.3	117.0	124.1	117.0	101.3	102.3	98.7
77.5°	1386.9	1241.4	605.1	87.0	85.5	98.2	107.9	102.8	89.6	100.6	88.6
80°	714.5	671.6	269.9	65.0	67.5	78.5	88.8	82.1	70.8	67.5	61.7
82.5°	163.7	190.3	106.4	46.5	48.9	56.6	67.8	61.7	50.9	42.9	42.4
85°	57.3	62.7	47.0	29.2	28.7	35.3	46.0	41.2	34.5	27.7	29.2
87.5°	18.1	23.8	17.6	11.8	12.3	15.9	21.2	19.5	16.1	10.5	11.0
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)