

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: P960344

Luminaire Tested: **NAV-SB1C-735-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-735-U-SL4-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5359.7 lumens
Efficiency: N/A
Efficacy: 98.5 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



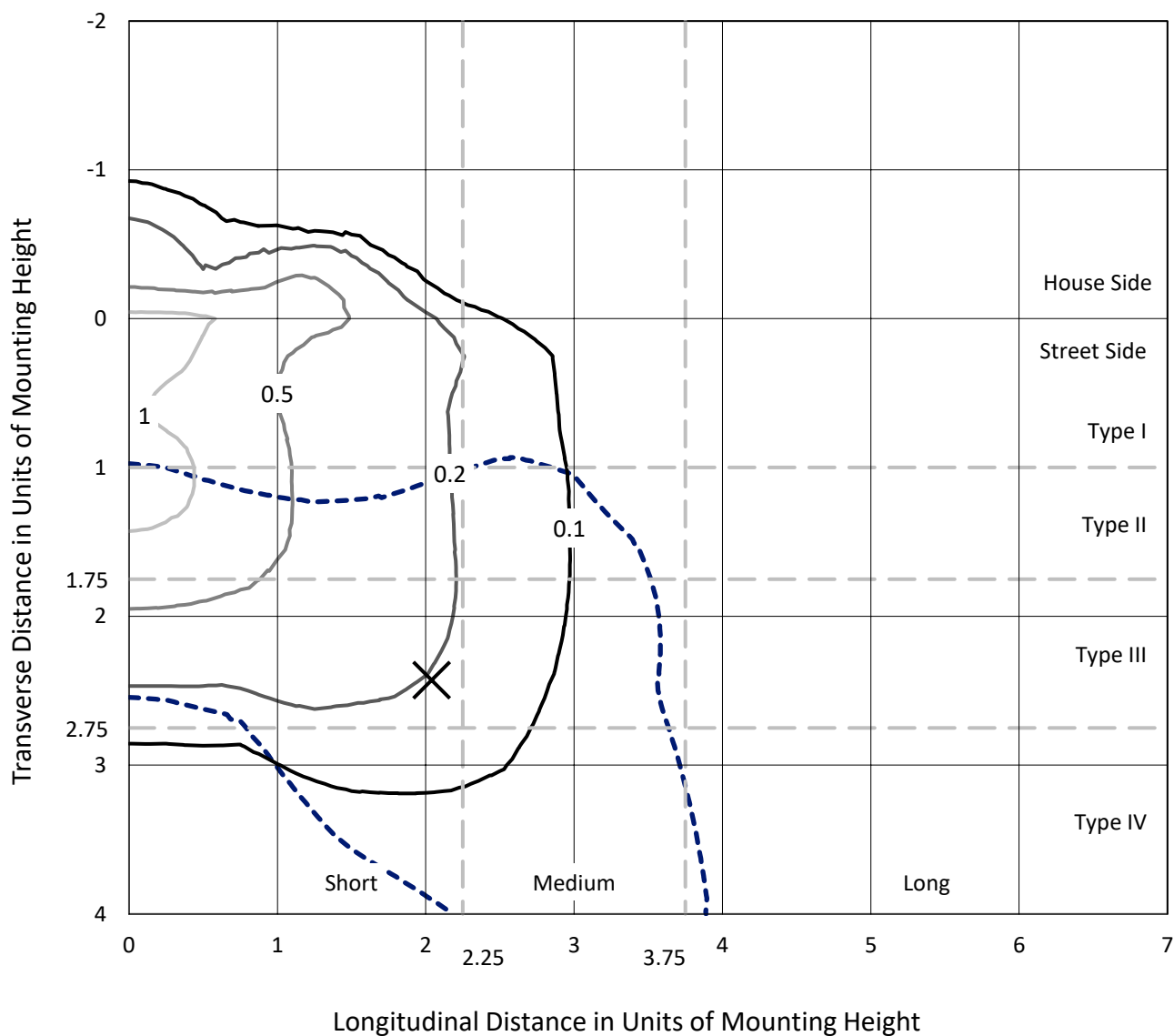
REPORT NUMBER: P960344

CATALOG NUMBER: NAV-SB1C-735-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

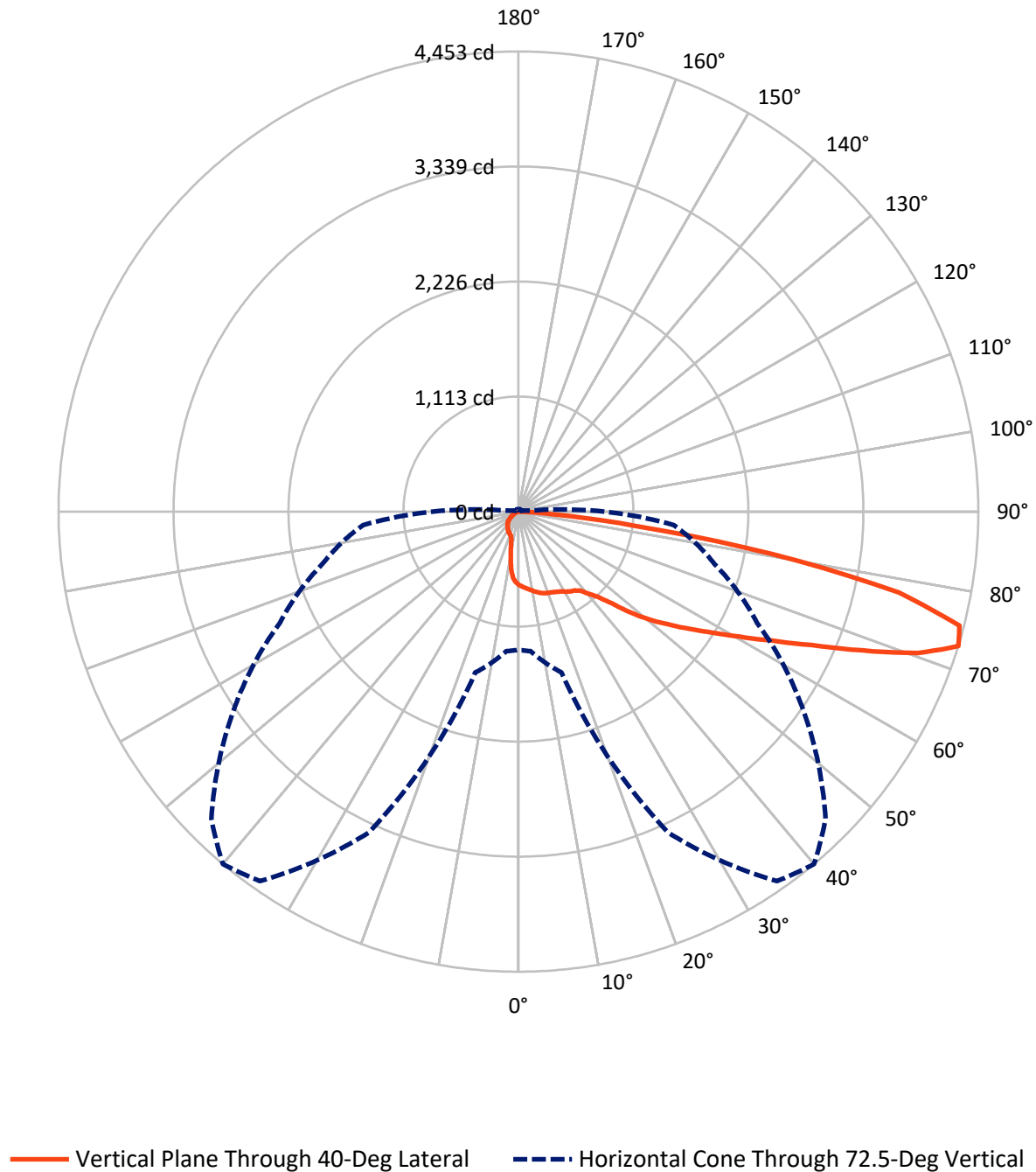


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc

Type IV - Short - N/A

REPORT NUMBER: P960344
CATALOG NUMBER: NAV-SB1C-735-U-SL4-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P960344

CATALOG NUMBER: NAV-SB1C-735-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	692.2	0.0	692.2
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	4667.6	0.0	4667.6
	% Fixture	87.1	0.0	87.1
Total	Lumens	5359.7	0.0	5359.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	1.2
10°-20°	176.0	3.3
20°-30°	284.8	5.3
30°-40°	420.5	7.8
40°-50°	707.6	13.2
50°-60°	1098.8	20.5
60°-70°	1374.9	25.7
70°-80°	1125.6	21.0
80°-90°	106.7	2.0
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°	5359.7	100.0
0°-180°	5359.7	100.0

Coefficient of Utilization



REPORT NUMBER: P960344

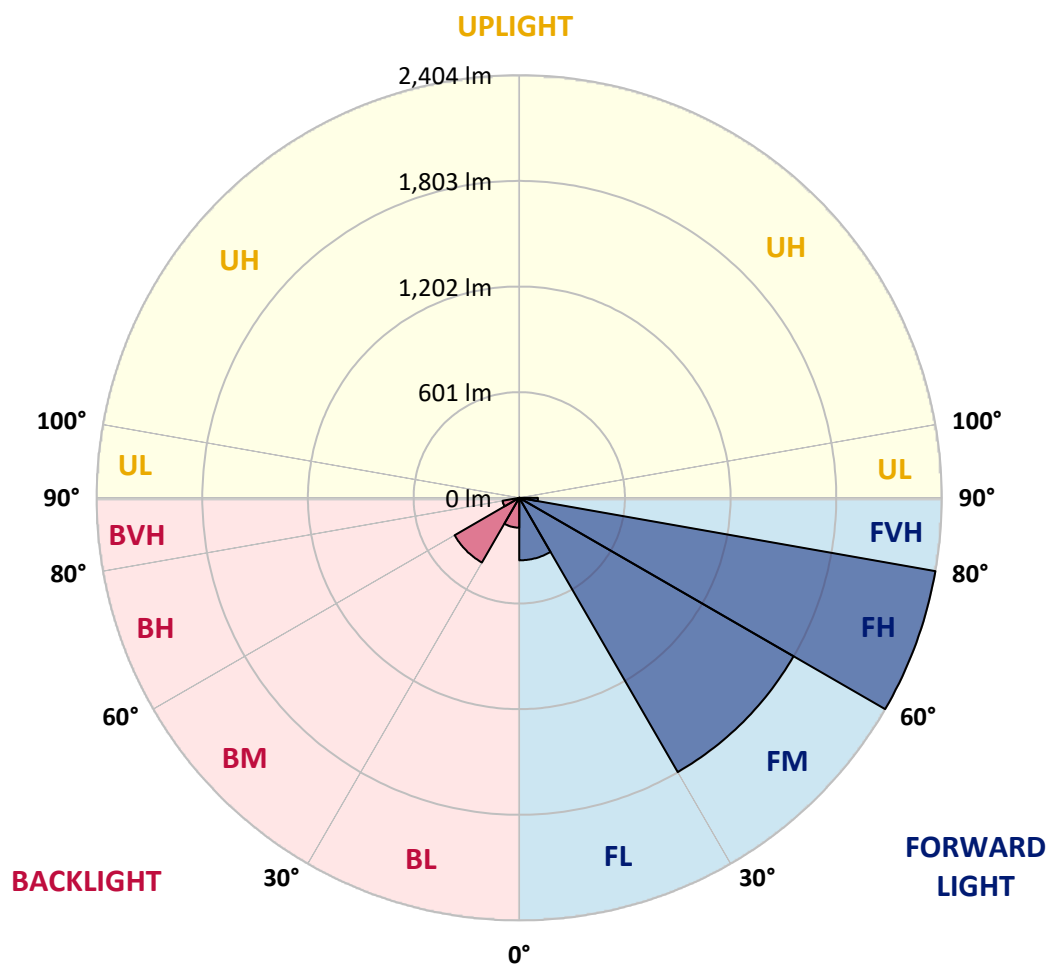
CATALOG NUMBER: NAV-SB1C-735-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	355.7	6.6			
FM	(30°-60°)	1801.9	33.6			
FH	(60°-80°)	2404.1	44.9			G2/5000
FVH	(80°-90°)	105.9	2.0			G2/225
BL	(0°-30°)	169.9	3.2	B1/500		
BM	(30°-60°)	425.0	7.9	B1/1000		
BH	(60°-80°)	96.4	1.8	B0/110		G0/110
BVH	(80°-90°)	0.8	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



REPORT NUMBER: P960344

CATALOG NUMBER: NAV-SB1C-735-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7
2.5°	731.0	733.9	732.3	729.1	728.3	726.6	724.6	723.8	721.0	718.5	715.8
5°	751.6	754.5	752.5	748.0	746.0	743.9	741.2	738.7	733.1	727.9	721.4
7.5°	774.3	776.6	774.3	767.8	764.5	762.2	758.1	754.5	748.0	740.4	732.3
10°	799.3	801.3	797.7	789.1	783.9	780.3	776.6	772.6	766.6	758.1	748.5
12.5°	822.7	825.1	819.5	809.3	803.3	799.7	795.6	792.4	786.4	778.3	768.2
15°	844.1	847.8	838.0	827.2	820.3	817.4	813.4	811.4	807.4	801.8	792.4
17.5°	860.3	862.6	852.6	839.7	832.0	829.9	827.2	828.3	827.6	824.7	818.7
20°	874.0	875.6	862.2	846.5	838.0	838.4	837.6	841.6	843.3	843.3	842.9
22.5°	890.9	891.3	874.3	854.5	844.5	847.4	848.5	853.0	856.2	859.5	866.7
25°	913.2	912.4	892.2	865.1	856.2	860.3	863.0	864.7	868.3	873.6	890.1
27.5°	946.2	943.8	918.0	882.0	871.6	875.1	880.5	879.7	878.0	882.0	909.9
30°	988.2	985.0	950.7	905.9	896.2	899.4	901.0	893.8	882.0	885.7	927.2
32.5°	1054.8	1049.2	1001.5	932.5	917.6	921.2	919.2	904.3	886.9	890.5	944.6
35°	1170.7	1156.9	1089.6	988.2	941.8	937.8	933.0	918.4	897.0	893.4	959.2
37.5°	1417.0	1392.7	1277.7	1096.8	996.7	970.5	955.5	941.0	907.8	893.4	975.7
40°	1694.6	1670.0	1537.2	1278.5	1087.9	1043.6	1008.0	967.6	919.2	898.6	1001.5
42.5°	1984.5	1957.4	1821.0	1503.7	1218.3	1127.1	1060.9	989.0	937.8	914.7	1035.9
45°	2308.2	2274.4	2095.9	1738.6	1407.6	1266.0	1146.1	1033.0	970.1	943.4	1082.7
47.5°	2649.7	2605.8	2370.0	1966.8	1611.5	1458.1	1301.9	1111.7	1017.7	986.2	1146.1
50°	2952.5	2909.0	2653.0	2205.3	1802.1	1640.9	1479.5	1220.8	1089.2	1046.7	1231.2
52.5°	3170.1	3137.0	2910.6	2451.6	2000.3	1812.5	1640.5	1347.5	1179.6	1124.2	1331.8
55°	3315.9	3285.5	3093.0	2684.9	2230.7	2001.4	1799.2	1485.1	1288.5	1217.1	1442.8
57.5°	3404.2	3386.9	3225.0	2893.2	2459.2	2208.2	1980.8	1636.5	1417.0	1326.5	1566.7
60°	3435.7	3421.6	3307.0	3091.8	2735.3	2456.4	2194.4	1807.3	1572.8	1450.8	1693.8
62.5°	3351.7	3354.6	3365.9	3327.2	3026.4	2747.0	2450.4	2012.4	1745.5	1591.7	1813.3
65°	2956.5	2980.0	3194.7	3587.9	3411.9	3111.2	2776.1	2262.6	1943.3	1751.9	1908.2
67.5°	2447.9	2481.8	2749.0	3740.5	3822.8	3583.9	3229.9	2581.6	2179.0	1915.1	1944.1
70°	1873.9	1910.2	2234.0	3708.7	4207.5	4100.6	3791.0	2987.3	2423.3	2028.1	1852.5
72.5°	1337.4	1356.0	1611.1	3424.8	4365.4	4452.6	4204.3	3371.5	2548.0	1965.5	1511.0
75°	939.7	936.5	1105.7	2758.0	4119.6	4409.9	4059.4	3163.7	2305.8	1561.5	931.7
77.5°	409.3	410.1	552.3	1674.8	3288.0	3766.4	3374.4	1981.6	1607.5	827.6	393.2
80°	106.2	109.4	202.6	666.9	1979.7	2485.8	2058.0	871.1	742.8	201.8	75.1
82.5°	37.5	40.0	93.3	209.5	730.2	1140.0	916.4	278.5	193.7	57.7	20.2
85°	10.9	12.9	50.0	64.2	151.0	322.2	222.4	54.1	47.7	29.8	5.2
87.5°	0.0	1.6	10.0	8.9	8.9	6.0	11.3	6.0	7.7	3.6	1.6
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: P960344

CATALOG NUMBER: NAV-SB1C-735-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7	709.7
2.5°	713.3	710.4	704.4	697.9	691.9	686.2	684.6	678.6	675.8	676.2	675.8
5°	717.0	711.7	700.0	685.8	671.3	654.8	641.0	621.7	605.2	603.1	601.9
7.5°	726.6	718.1	699.2	671.7	635.4	589.8	547.3	505.4	481.5	468.6	467.9
10°	741.6	730.2	701.2	648.7	571.6	490.1	425.9	373.0	345.9	333.4	331.0
12.5°	759.3	746.8	704.4	609.6	489.2	382.3	312.8	280.5	274.9	274.1	273.7
15°	784.3	770.6	708.1	556.7	400.1	291.1	259.1	259.5	264.0	266.4	266.0
17.5°	812.2	798.5	702.8	492.1	312.0	248.7	247.8	251.5	258.0	260.3	259.9
20°	840.5	827.6	684.3	416.2	252.3	237.0	240.2	244.3	250.7	253.9	253.9
22.5°	869.5	858.2	654.8	335.5	227.7	228.5	232.5	236.6	243.8	247.4	247.4
25°	900.6	890.9	615.6	268.9	217.2	219.6	224.9	229.7	237.4	241.8	241.8
27.5°	932.1	924.9	571.2	224.5	207.5	210.3	216.4	222.8	230.5	235.7	236.2
30°	966.4	962.4	535.7	207.9	198.2	200.6	207.5	214.7	223.2	229.7	230.5
32.5°	1001.5	1000.7	518.3	220.0	189.7	191.4	197.4	204.7	215.1	223.2	224.1
35°	1036.3	1037.8	508.2	254.3	186.9	182.4	186.5	193.0	205.5	215.6	217.2
37.5°	1080.7	1084.7	507.8	291.4	193.7	173.5	176.4	180.8	191.8	203.5	205.5
40°	1146.9	1168.3	533.6	323.4	205.9	165.5	166.4	167.1	172.8	182.4	185.7
42.5°	1234.8	1297.4	626.9	345.1	210.7	158.3	155.4	151.0	150.2	155.4	158.3
45°	1344.3	1453.7	790.8	357.2	205.9	150.2	142.5	130.8	126.4	130.0	130.0
47.5°	1473.0	1624.8	985.0	360.1	197.8	140.1	126.4	111.0	107.4	108.5	108.1
50°	1598.6	1753.2	1155.7	336.7	184.5	127.2	108.5	95.6	93.3	93.7	93.7
52.5°	1709.6	1797.2	1204.2	281.4	166.8	111.4	93.3	84.4	82.7	82.7	82.3
55°	1783.1	1749.6	1073.8	215.1	144.5	95.2	79.9	75.4	74.7	74.3	73.5
57.5°	1798.4	1594.5	811.0	155.4	113.1	80.4	71.0	68.7	67.0	65.4	64.6
60°	1743.5	1336.2	516.3	108.5	84.8	68.7	62.9	61.4	58.1	54.9	53.7
62.5°	1624.8	1009.2	285.8	75.4	68.3	58.5	55.7	53.7	47.7	42.4	40.8
65°	1465.3	671.0	126.4	58.9	55.7	49.2	47.7	44.8	37.5	31.5	30.2
67.5°	1305.1	386.3	56.9	47.3	44.8	40.4	39.2	37.1	31.9	26.2	25.4
70°	1122.3	195.8	39.2	37.5	34.7	30.6	31.9	31.5	26.2	21.4	20.6
72.5°	835.6	97.3	29.4	28.3	25.0	21.8	26.2	25.8	20.6	16.2	15.4
75°	473.1	48.1	21.4	19.8	15.0	16.2	21.0	19.8	14.1	10.5	9.7
77.5°	187.7	24.6	14.1	12.1	8.9	10.9	15.4	13.3	7.3	4.4	4.0
80°	43.2	12.1	7.3	5.2	4.0	6.5	8.1	4.8	2.0	0.4	0.0
82.5°	12.1	5.2	2.5	2.0	2.0	2.5	2.0	0.8	0.0	0.0	0.0
85°	4.0	2.5	0.8	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	1.6	0.8	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)