

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: P960422

Luminaire Tested: **NAV-SB1C-750-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-750-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8129.3 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

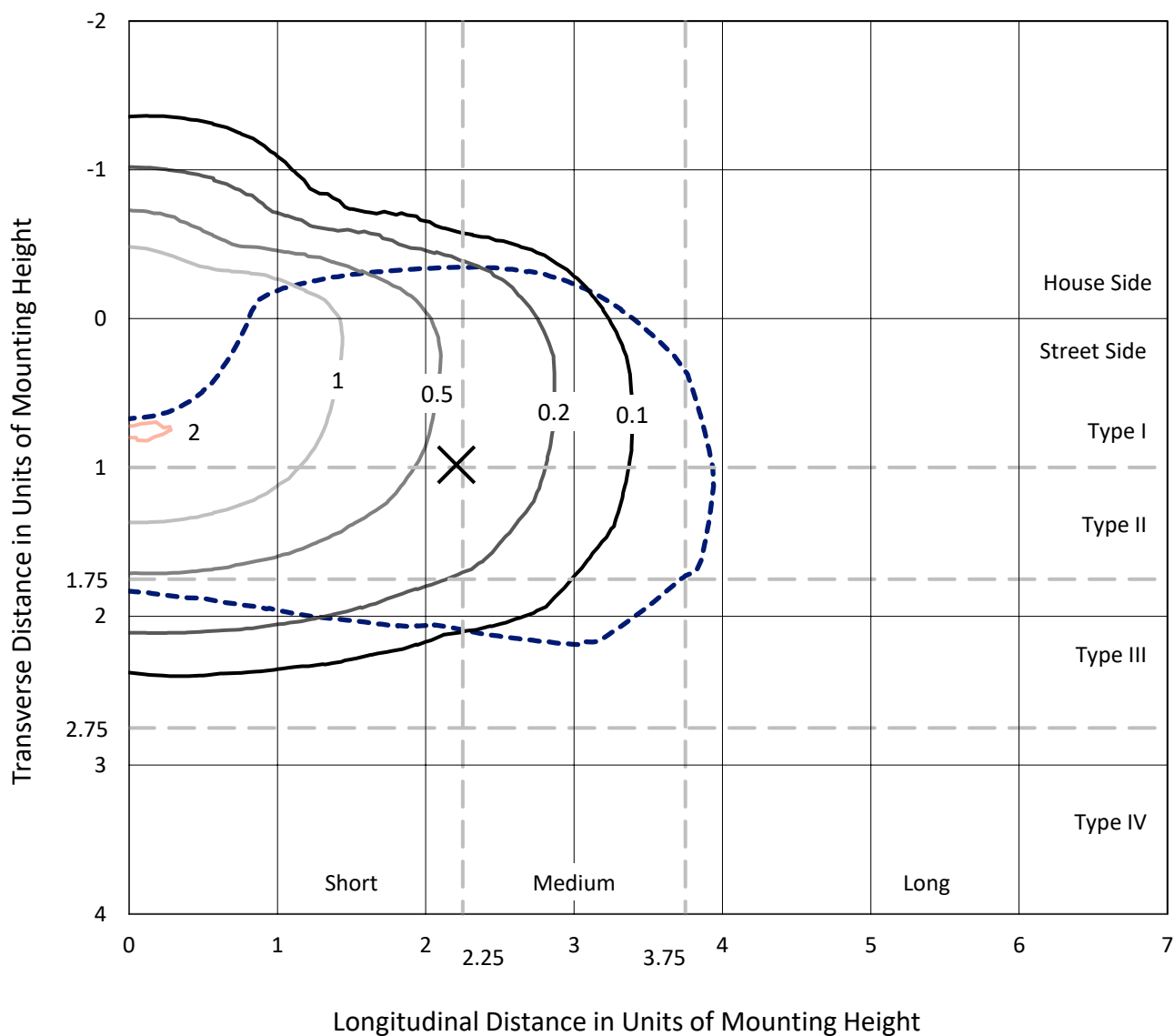
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P960422
CATALOG NUMBER: NAV-SB1C-750-U-T3

Iso-Footcandle Lines of Horizontal Illumination

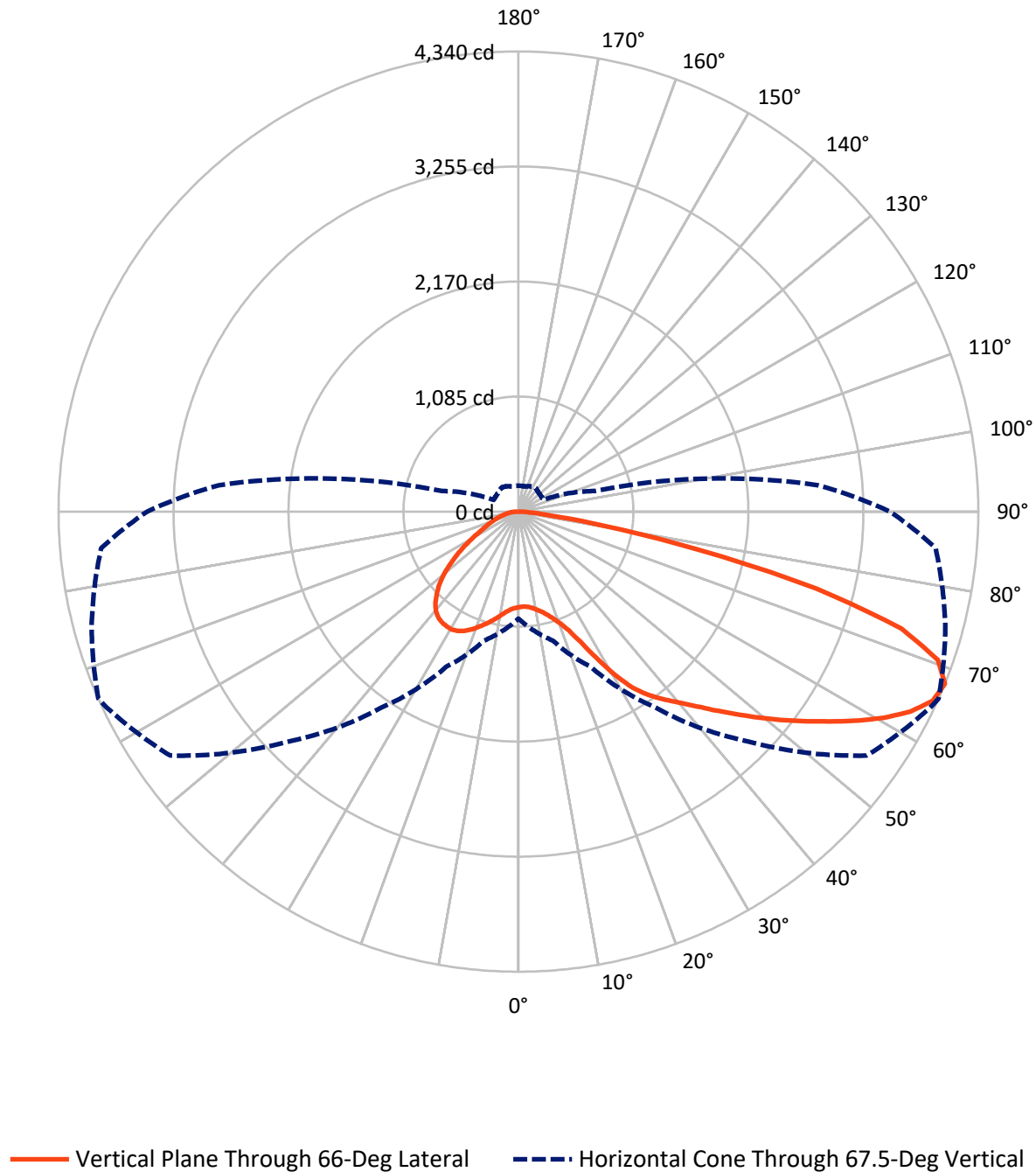
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type III - Short - N/A

REPORT NUMBER: P960422
CATALOG NUMBER: NAV-SB1C-750-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P960422

CATALOG NUMBER: NAV-SB1C-750-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2021.3	0.0	2021.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	6108.0	0.0	6108.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	8129.3	0.0	8129.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	1.1
10°-20°	295.3	3.6
20°-30°	569.3	7.0
30°-40°	998.1	12.3
40°-50°	1483.9	18.3
50°-60°	1881.0	23.1
60°-70°	1840.5	22.6
70°-80°	877.9	10.8
80°-90°	93.8	1.2
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°	8129.3	100.0
0°-180°	8129.3	100.0

Coefficient of Utilization



REPORT NUMBER: P960422

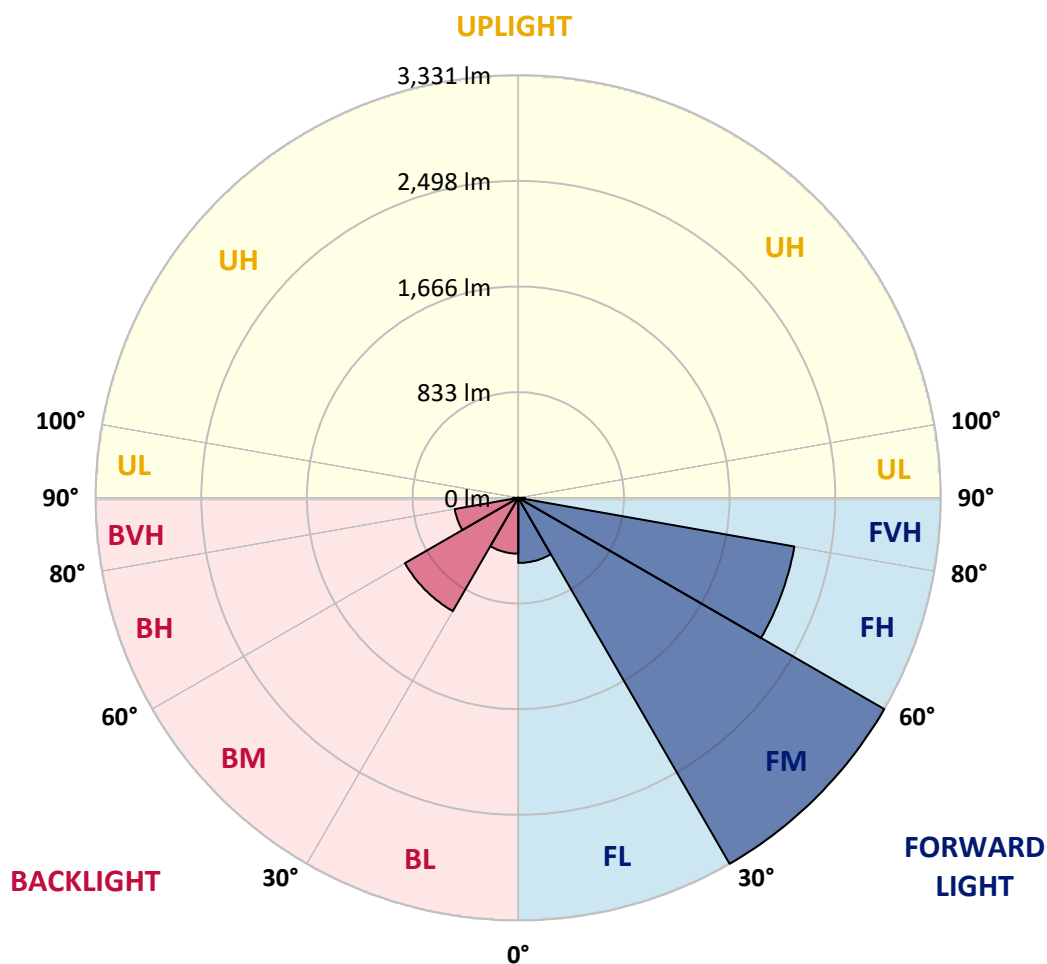
CATALOG NUMBER: NAV-SB1C-750-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	513.7	6.3			
FM	(30°-60°)	3331.3	41.0			
FH	(60°-80°)	2209.8	27.2			G2/5000
FVH	(80°-90°)	53.2	0.7			G1/100
BL	(0°-30°)	440.3	5.4	B1/500		
BM	(30°-60°)	1031.7	12.7	B2/2500		
BH	(60°-80°)	508.7	6.3	B2/1000		G2/1000
BVH	(80°-90°)	40.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



REPORT NUMBER: P960422

CATALOG NUMBER: NAV-SB1C-750-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	901.7	901.7	901.7	901.7	901.7	901.7	901.7	901.7	901.7	901.7	901.7
2.5°	892.3	897.4	896.1	894.0	893.5	894.4	895.6	897.0	896.6	898.6	902.1
5°	889.7	894.8	894.4	894.4	896.1	899.5	901.7	903.7	901.7	904.3	908.9
7.5°	891.4	895.2	897.0	898.6	902.9	909.4	914.5	919.1	916.6	919.6	925.6
10°	913.2	916.1	917.9	917.9	920.9	928.1	933.3	941.8	939.6	944.3	952.0
12.5°	952.9	955.9	955.9	954.2	956.3	961.0	962.7	972.1	968.3	976.0	983.7
15°	1001.6	1007.6	1002.9	999.9	1000.7	1005.4	1005.0	1012.3	1008.4	1014.9	1021.6
17.5°	1055.4	1063.1	1055.4	1054.9	1053.3	1058.4	1058.8	1065.2	1058.4	1063.1	1067.7
20°	1119.1	1129.8	1123.3	1125.4	1121.7	1123.7	1125.9	1135.3	1124.6	1128.0	1126.8
22.5°	1208.8	1221.6	1214.7	1222.8	1220.3	1218.5	1218.1	1234.8	1218.1	1219.4	1207.0
25°	1339.5	1354.8	1342.9	1353.9	1353.9	1359.6	1365.9	1387.2	1359.6	1351.4	1319.4
27.5°	1532.5	1547.9	1524.4	1531.2	1529.1	1542.7	1536.0	1588.9	1559.0	1545.7	1481.2
30°	1764.8	1792.2	1747.7	1746.1	1743.9	1765.7	1775.5	1810.6	1780.2	1767.0	1689.2
32.5°	2016.0	2044.6	1991.7	1976.3	1968.2	1981.4	1973.3	2001.5	1980.5	1960.0	1864.0
35°	2281.6	2309.8	2259.4	2229.6	2197.1	2169.3	2140.3	2147.6	2127.9	2096.7	1997.2
37.5°	2532.8	2584.4	2531.1	2499.1	2439.3	2385.1	2303.9	2270.2	2251.7	2223.1	2122.8
40°	2788.6	2818.1	2777.5	2750.2	2685.3	2600.3	2470.5	2399.1	2374.3	2346.5	2261.6
42.5°	2977.0	3005.2	2983.4	2964.6	2913.8	2815.2	2647.3	2558.0	2522.1	2491.0	2418.8
45°	3126.5	3147.5	3133.7	3140.6	3118.8	3023.1	2830.5	2728.4	2691.2	2653.2	2596.4
47.5°	3186.7	3209.0	3230.7	3271.3	3308.5	3238.0	3027.4	2912.9	2873.7	2834.7	2778.8
50°	3179.9	3202.5	3265.8	3352.1	3467.4	3443.8	3235.0	3109.4	3073.2	3028.7	2977.0
52.5°	3125.2	3150.8	3232.0	3375.5	3559.2	3598.1	3446.4	3312.3	3278.2	3225.2	3173.5
55°	2981.7	2997.1	3118.8	3322.1	3580.9	3705.7	3653.5	3528.5	3494.2	3420.3	3363.9
57.5°	2715.6	2737.8	2915.1	3178.2	3526.3	3778.7	3835.6	3755.6	3722.8	3616.4	3557.5
60°	2368.4	2403.8	2606.7	2936.4	3387.0	3778.3	4000.8	3979.0	3951.7	3809.4	3747.9
62.5°	1975.4	2016.4	2211.6	2594.7	3143.6	3671.0	4104.2	4166.1	4152.0	3987.6	3908.9
65°	1517.1	1545.3	1739.6	2152.7	2764.7	3440.8	4116.1	4293.8	4296.4	4123.0	3993.1
67.5°	1010.1	1091.3	1260.0	1615.4	2257.4	3064.5	4011.0	4314.7	4339.5	4169.5	3950.9
70°	492.9	599.6	765.0	1049.8	1615.4	2487.6	3736.4	4143.0	4198.1	4033.7	3698.8
72.5°	204.6	239.2	329.3	518.1	927.3	1678.5	3184.6	3677.5	3779.6	3574.1	3109.8
75°	138.0	149.4	188.4	265.7	422.4	827.8	2296.6	2742.1	2906.5	2699.3	2206.5
77.5°	106.4	113.6	137.1	185.8	251.1	313.0	1229.3	1652.5	1737.5	1608.5	1148.1
80°	83.7	89.3	102.5	135.4	178.1	167.4	419.0	748.8	797.9	669.3	369.0
82.5°	72.6	74.7	73.5	91.8	118.3	97.8	137.6	276.3	304.9	221.3	120.4
85°	52.6	58.5	61.1	56.8	62.8	49.5	56.4	97.8	107.6	96.1	68.0
87.5°	21.3	31.6	38.8	36.7	23.1	14.1	17.5	28.6	32.9	35.9	22.2
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: P960422

CATALOG NUMBER: NAV-SB1C-750-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	901.7	901.7	901.7	901.7	901.7	901.7	901.7	901.7	901.7	901.7	901.7
2.5°	902.5	905.5	907.6	910.2	911.9	914.5	919.6	922.6	923.0	925.2	924.8
5°	910.6	914.9	919.6	926.4	934.1	940.5	950.4	957.1	959.7	961.9	961.4
7.5°	928.1	934.1	942.7	954.6	965.8	974.3	986.3	994.4	1002.4	1005.4	1005.8
10°	954.2	962.7	975.1	991.4	1003.3	1014.4	1026.7	1033.6	1041.7	1045.2	1046.8
12.5°	986.7	995.6	1011.9	1034.4	1045.6	1053.3	1057.5	1055.9	1057.5	1060.6	1061.4
15°	1023.8	1033.6	1052.0	1076.4	1084.0	1077.2	1067.7	1059.2	1058.0	1058.8	1061.8
17.5°	1067.7	1075.0	1096.4	1116.9	1111.4	1083.2	1062.6	1049.0	1042.1	1040.1	1043.0
20°	1129.3	1129.3	1146.8	1159.6	1122.5	1074.6	1042.6	1020.4	1006.2	1000.3	999.1
22.5°	1204.1	1197.2	1208.3	1199.4	1120.3	1050.7	1006.2	967.8	946.5	938.0	936.6
25°	1298.9	1290.8	1287.7	1232.3	1104.9	1012.7	940.5	894.0	875.1	870.4	871.4
27.5°	1442.0	1421.5	1382.6	1250.2	1076.8	952.9	863.7	820.5	809.9	810.3	811.5
30°	1632.4	1591.4	1496.2	1253.2	1030.6	868.4	785.0	754.3	749.2	751.3	758.6
32.5°	1808.8	1770.0	1612.3	1239.5	959.7	785.5	714.5	694.0	686.3	688.9	692.4
35°	1947.2	1936.5	1720.0	1220.3	872.6	707.8	651.4	633.9	618.9	615.5	618.1
37.5°	2077.9	2073.7	1800.7	1193.4	786.3	652.6	600.5	577.5	555.7	543.8	544.2
40°	2221.5	2217.2	1853.7	1151.9	709.9	604.8	554.8	524.5	497.6	475.8	478.0
42.5°	2382.9	2357.7	1878.9	1092.5	644.9	564.3	517.6	476.6	441.3	421.2	422.4
45°	2559.3	2502.4	1878.4	1017.0	590.3	527.1	478.0	419.8	386.9	368.2	367.4
47.5°	2746.4	2640.9	1855.4	933.3	537.3	486.1	416.5	372.0	350.2	338.7	336.1
50°	2939.4	2770.3	1816.1	837.1	483.1	439.5	378.0	347.7	331.0	320.3	316.5
52.5°	3120.9	2887.7	1768.7	728.3	427.9	394.2	360.9	337.4	319.9	307.9	302.8
55°	3289.6	2989.0	1701.6	616.7	383.1	363.9	352.8	333.1	313.0	299.0	293.5
57.5°	3439.6	3054.7	1585.9	512.1	351.1	343.0	344.3	325.8	302.8	290.9	283.2
60°	3564.3	3103.0	1414.6	415.1	325.0	322.5	331.0	312.2	285.4	271.6	265.7
62.5°	3639.1	3102.2	1204.5	340.0	302.8	303.7	313.5	295.1	267.8	255.0	251.1
65°	3632.6	3026.1	973.9	290.9	281.5	282.3	295.1	276.3	253.3	245.6	245.2
67.5°	3504.1	2840.8	747.0	258.8	258.0	261.8	276.8	263.5	244.4	243.4	244.8
70°	3156.0	2455.9	538.1	233.2	233.6	239.2	258.8	255.4	239.6	241.3	240.9
72.5°	2530.6	1872.5	361.3	206.3	206.7	215.7	241.8	249.0	234.9	257.6	261.0
75°	1685.4	1167.8	232.4	177.6	178.1	189.6	226.8	236.7	222.1	256.7	258.8
77.5°	809.9	524.9	168.3	149.4	149.4	160.2	196.1	211.9	189.2	199.5	182.8
80°	279.7	197.3	132.4	120.4	117.9	125.2	165.3	183.7	163.2	150.4	140.9
82.5°	110.2	102.5	106.4	93.6	85.0	89.7	128.5	151.6	120.0	108.4	108.0
85°	63.2	66.6	75.1	61.9	49.1	55.1	94.4	109.0	90.5	79.8	81.6
87.5°	17.1	23.5	34.6	32.1	22.2	23.5	44.9	60.3	52.1	40.2	41.4
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)