

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: P960789

Luminaire Tested: **NAV-SB1D-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960789
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-SB1D-722-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8735 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

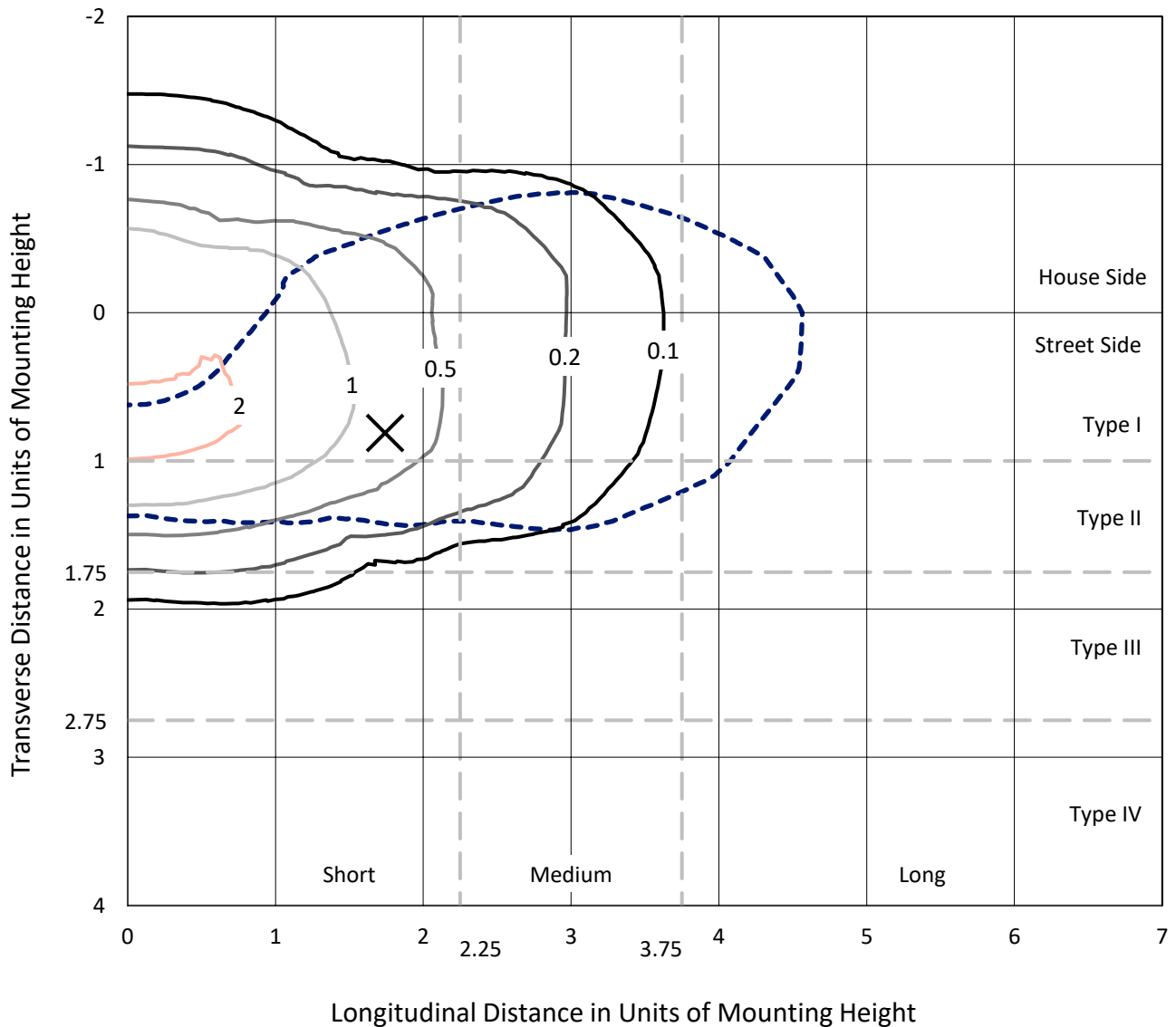
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

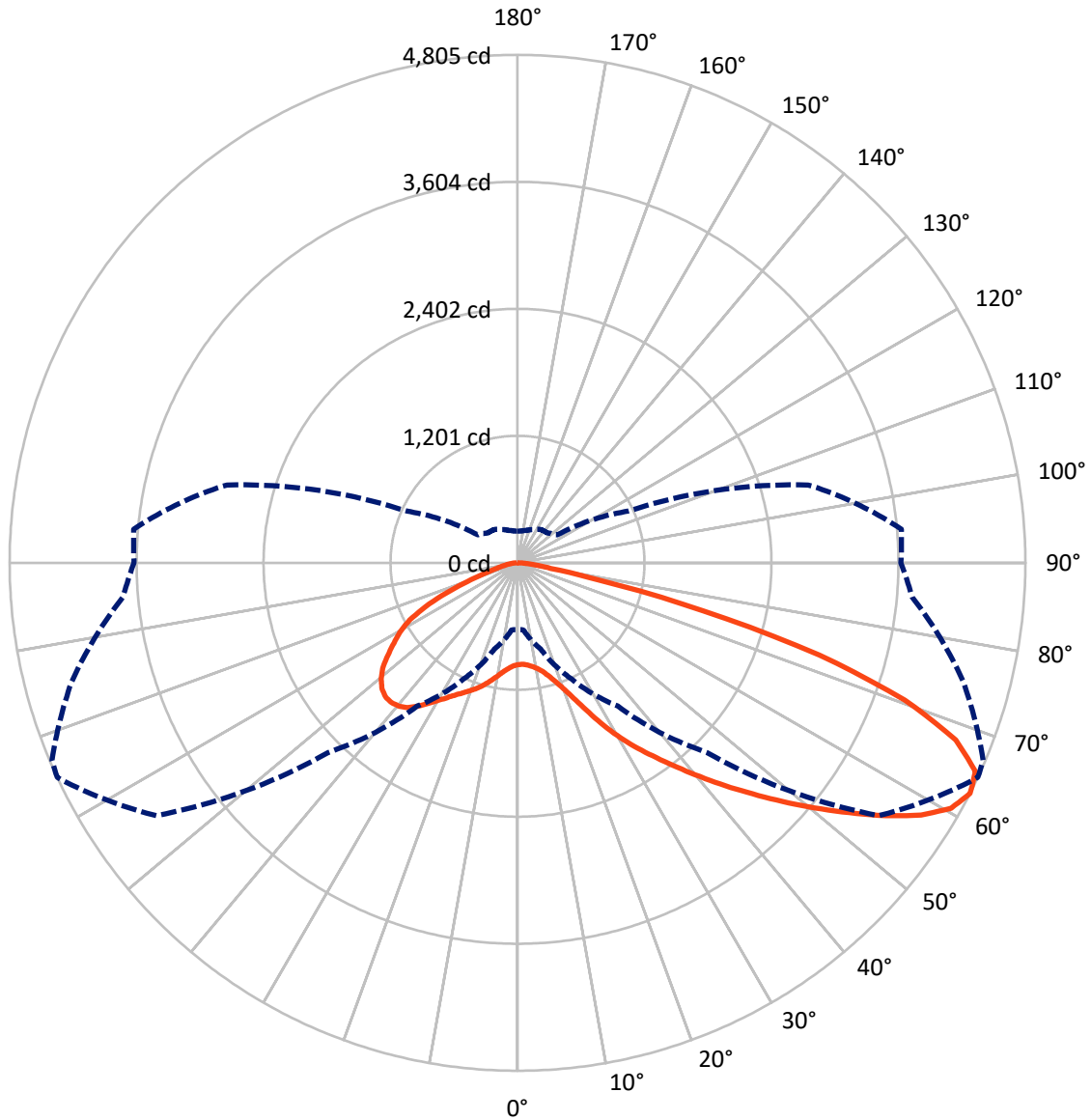
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2756.4	0.0	2756.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	5978.6	0.0	5978.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	8735.0	0.0	8735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	1.1
10°-20°	325.4	3.7
20°-30°	659.8	7.6
30°-40°	1141.9	13.1
40°-50°	1728.0	19.8
50°-60°	2025.9	23.2
60°-70°	1698.5	19.4
70°-80°	937.7	10.7
80°-90°	121.8	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°	8735.0	100.0
0°-180°	8735.0	100.0

Coefficient of Utilization



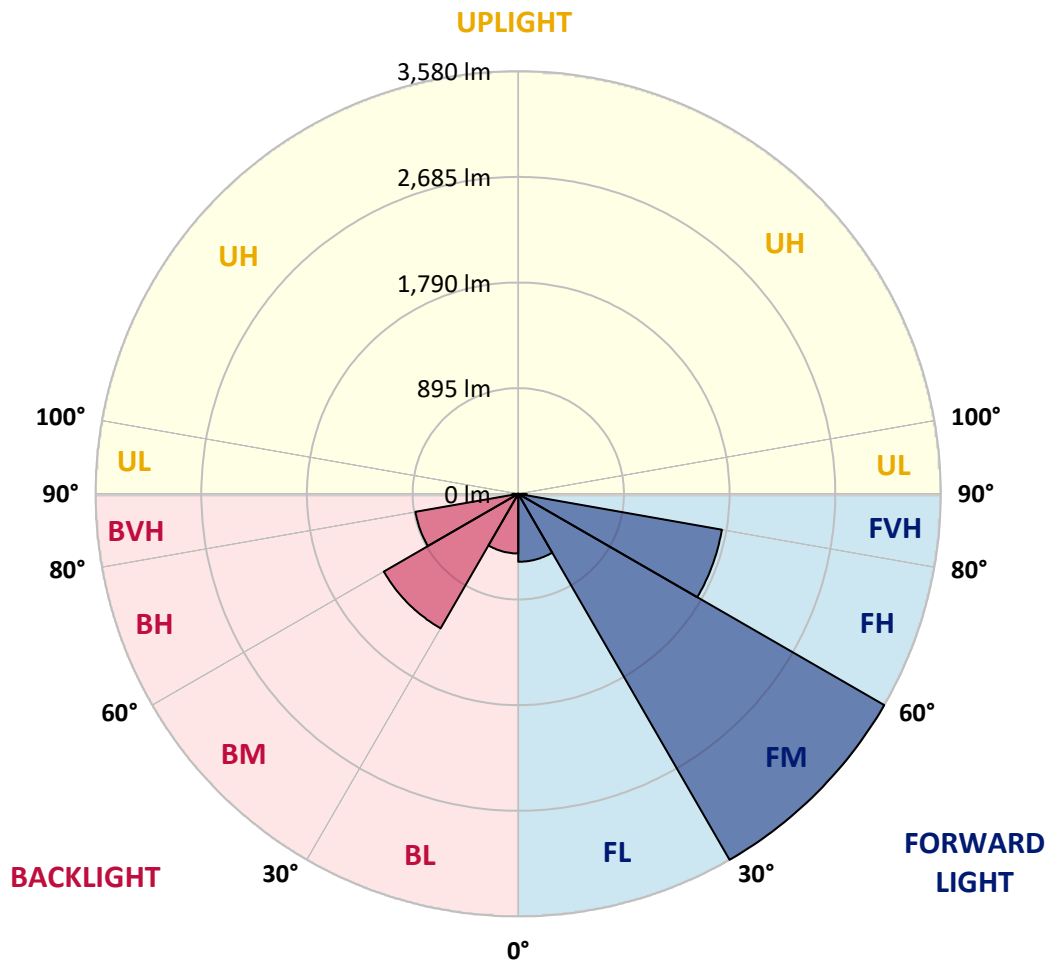
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	575.8	6.6			
FM (30°-60°)	3579.9	41.0			
FH (60°-80°)	1752.0	20.1			G1/1800
FVH (80°-90°)	71.0	0.8			G1/100
BL (0°-30°)	505.5	5.8	B2/1000		
BM (30°-60°)	1315.9	15.1	B2/2500		
BH (60°-80°)	884.2	10.1	B2/1000		G2/1000
BVH (80°-90°)	50.8	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	962.6	962.6	962.6	962.6	962.6	962.6	962.6	962.6	962.6	962.6	962.6
2.5°	956.2	953.5	955.8	955.8	956.6	956.2	959.4	960.3	961.7	964.4	964.4
5°	946.7	946.3	950.3	954.0	957.6	960.7	964.8	970.7	971.6	974.8	978.9
7.5°	943.5	940.8	947.2	951.7	960.3	968.0	978.9	988.8	992.9	994.2	1002.0
10°	968.0	963.5	969.3	972.1	979.3	987.1	999.7	1015.6	1020.1	1025.5	1034.1
12.5°	1009.7	1004.7	1013.3	1017.4	1024.2	1030.9	1039.6	1055.0	1057.3	1067.2	1075.4
15°	1066.8	1060.9	1066.3	1071.3	1082.7	1089.0	1097.6	1112.5	1112.5	1120.2	1126.2
17.5°	1144.3	1136.6	1140.6	1142.5	1149.7	1159.3	1173.7	1186.8	1193.7	1190.9	1182.8
20°	1259.8	1250.3	1250.3	1241.3	1238.5	1246.3	1265.3	1283.4	1290.7	1276.6	1256.6
22.5°	1433.5	1419.8	1412.1	1381.3	1369.1	1370.0	1389.0	1411.2	1417.1	1392.2	1347.4
25°	1654.1	1632.8	1622.4	1577.1	1549.4	1525.4	1540.4	1569.0	1577.1	1546.3	1473.7
27.5°	1874.8	1876.2	1866.2	1811.8	1766.1	1722.1	1714.4	1744.3	1753.0	1718.0	1628.3
30°	2184.4	2152.2	2133.1	2067.8	2002.6	1940.9	1909.3	1921.5	1923.7	1882.1	1777.9
32.5°	2451.3	2443.1	2402.3	2345.2	2261.4	2164.9	2111.8	2092.3	2088.7	2029.4	1905.7
35°	2755.4	2750.8	2707.7	2639.8	2549.2	2415.0	2319.4	2263.6	2259.1	2175.8	2032.1
37.5°	3064.4	3064.4	3022.3	2948.0	2854.1	2686.5	2541.0	2452.6	2438.2	2329.4	2160.8
40°	3311.0	3296.0	3303.7	3272.4	3165.0	2987.0	2787.1	2658.8	2639.4	2508.8	2297.6
42.5°	3451.0	3446.0	3492.3	3527.1	3483.2	3340.9	3058.1	2882.3	2855.0	2706.4	2455.4
45°	3482.2	3476.8	3559.3	3687.1	3748.7	3690.3	3352.7	3117.4	3084.3	2913.0	2624.4
47.5°	3410.2	3399.3	3520.4	3722.0	3919.6	4022.5	3671.7	3372.6	3324.6	3114.3	2797.9
50°	3193.6	3183.1	3366.3	3634.1	3977.1	4248.1	4017.9	3643.2	3569.8	3330.0	2973.3
52.5°	2722.7	2727.7	3014.6	3382.6	3901.5	4388.6	4316.2	3928.2	3839.9	3550.7	3137.8
55°	2120.9	2131.8	2484.4	2889.5	3598.8	4367.3	4519.6	4221.9	4133.9	3758.3	3307.8
57.5°	1518.6	1566.6	1897.1	2298.0	3017.3	4029.7	4564.0	4501.1	4415.8	3984.9	3474.1
60°	984.3	992.9	1332.8	1737.1	2297.6	3429.8	4473.8	4712.6	4646.0	4215.9	3613.2
62.5°	630.8	636.7	843.8	1215.0	1653.6	2537.4	4170.2	4804.7	4784.3	4368.7	3746.9
65°	463.6	459.1	566.9	803.1	1114.0	1564.9	3580.6	4760.2	4800.6	4464.3	3857.5
67.5°	387.0	380.7	433.7	556.1	820.7	888.7	2649.3	4471.6	4619.3	4453.4	3938.7
70°	352.6	347.2	379.4	412.9	640.3	595.0	1335.6	3887.4	4115.0	4329.7	3925.4
72.5°	298.7	289.2	333.1	366.6	498.0	456.3	552.0	2986.0	3263.4	3933.2	3740.6
75°	231.5	225.2	262.8	322.7	374.3	356.2	348.9	1813.2	2115.9	3041.8	3272.4
77.5°	183.6	175.0	209.4	251.5	336.7	268.8	254.2	780.8	1080.9	1941.9	2448.5
80°	138.3	130.5	159.1	199.0	258.8	202.5	164.5	318.6	407.4	983.9	1231.3
82.5°	98.3	91.5	111.0	146.0	174.0	181.7	101.1	178.6	200.8	379.4	275.1
85°	63.0	58.9	74.3	91.5	110.6	117.0	61.6	93.4	102.4	156.3	114.7
87.5°	34.4	28.1	39.9	42.6	51.2	46.6	29.4	34.0	36.7	56.7	48.5
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°	962.6	962.6	962.6	962.6	962.6	962.6	962.6	962.6	962.6	962.6	962.6
2.5°	966.2	967.6	972.1	973.4	976.6	980.7	983.4	986.2	986.2	988.8	988.8
5°	979.3	982.5	992.0	997.0	1005.1	1013.3	1018.3	1024.2	1027.9	1029.6	1030.5
7.5°	1004.7	1009.7	1023.3	1031.9	1045.9	1057.3	1065.0	1073.2	1074.9	1079.9	1078.1
10°	1039.1	1045.1	1060.5	1076.8	1093.6	1107.6	1114.8	1120.7	1123.0	1123.9	1121.7
12.5°	1078.6	1087.2	1107.1	1127.1	1144.7	1157.0	1158.8	1157.4	1151.1	1145.6	1145.6
15°	1127.1	1134.8	1157.0	1178.8	1196.0	1198.2	1186.8	1179.7	1172.0	1170.6	1170.6
17.5°	1185.1	1189.2	1209.5	1230.8	1232.3	1224.5	1207.8	1200.9	1193.7	1188.7	1189.2
20°	1252.7	1251.2	1265.8	1274.8	1265.3	1241.7	1216.4	1205.0	1197.8	1191.9	1192.3
22.5°	1333.3	1322.9	1321.0	1318.8	1293.3	1244.0	1209.5	1195.0	1183.7	1175.6	1178.2
25°	1450.7	1410.8	1383.1	1367.8	1310.6	1231.7	1187.8	1155.6	1134.4	1120.2	1125.8
27.5°	1597.5	1530.4	1460.6	1423.0	1310.6	1206.8	1135.2	1083.1	1048.3	1033.7	1041.0
30°	1737.5	1667.3	1564.4	1489.6	1307.4	1166.0	1050.5	978.0	937.2	922.7	931.3
32.5°	1857.2	1780.5	1674.5	1562.6	1299.7	1099.9	945.4	865.1	825.7	808.5	817.1
35°	1968.2	1886.6	1785.1	1642.8	1279.3	1002.9	829.7	768.6	724.7	697.0	706.0
37.5°	2082.0	1984.9	1889.8	1715.3	1242.6	889.6	741.0	688.8	637.1	600.0	610.0
40°	2205.7	2089.7	2001.7	1758.4	1182.3	781.8	672.1	624.5	569.7	530.2	537.9
42.5°	2350.2	2215.1	2126.4	1780.5	1099.9	705.2	627.2	580.6	528.9	496.7	503.1
45°	2501.1	2353.4	2240.1	1780.1	1007.9	669.3	612.7	566.5	509.4	475.8	481.2
47.5°	2659.3	2497.9	2338.4	1751.1	928.1	674.3	604.5	536.1	473.1	440.5	445.1
50°	2817.9	2656.1	2433.6	1696.7	894.1	663.5	574.2	493.5	419.2	389.7	391.5
52.5°	2975.2	2824.3	2515.7	1619.2	859.7	623.1	535.3	438.2	397.0	376.6	376.6
55°	3133.3	2990.5	2604.9	1506.3	773.6	575.9	470.0	417.4	379.4	360.7	359.0
57.5°	3291.9	3182.7	2689.7	1393.6	665.2	518.0	434.2	392.0	361.6	345.7	343.1
60°	3456.9	3402.5	2777.1	1289.8	558.3	443.6	407.8	371.6	340.8	323.1	321.7
62.5°	3626.9	3644.5	2845.5	1156.1	460.0	398.3	384.3	347.2	317.2	300.4	300.0
65°	3798.1	3877.9	2890.4	970.7	373.0	355.3	359.0	320.4	290.1	275.5	275.1
67.5°	3927.3	4046.1	2877.7	734.6	305.9	314.5	327.2	292.3	263.7	252.5	252.9
70°	3941.8	4026.1	2752.6	503.1	256.0	274.6	291.8	264.7	235.2	227.0	227.6
72.5°	3748.7	3754.2	2404.1	328.5	216.6	241.1	254.7	236.6	208.0	199.9	199.4
75°	3242.6	3104.7	1765.2	216.6	181.3	207.2	219.8	207.2	179.5	181.3	175.0
77.5°	2456.7	2198.8	1071.7	154.1	151.4	174.0	191.3	182.1	158.6	178.1	156.8
80°	1265.8	1189.6	478.1	115.1	119.6	139.1	157.2	145.4	125.6	119.6	109.3
82.5°	290.1	337.1	188.5	82.5	86.5	100.1	120.1	109.3	90.2	76.2	75.2
85°	101.5	111.0	83.4	51.7	50.7	62.5	81.6	73.0	61.2	49.0	51.7
87.5°	32.2	42.1	31.3	20.8	21.7	28.1	37.6	34.4	28.6	18.6	19.5
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)