

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: P960510

Luminaire Tested: **NAV-SB1C-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960510
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-SB1C-830-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

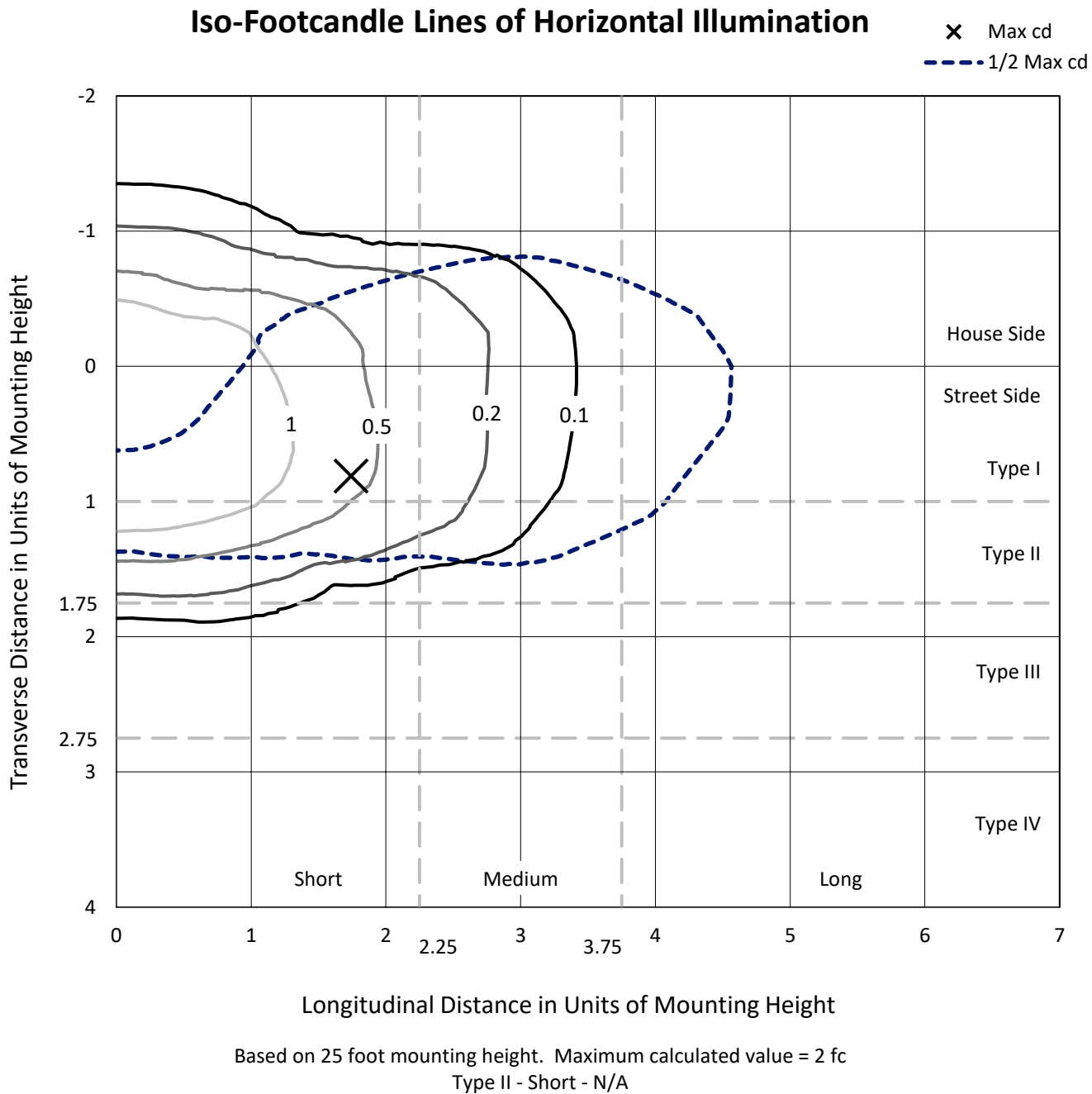
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6992.5 lumens
Efficiency: N/A
Efficacy: 128.5 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): 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

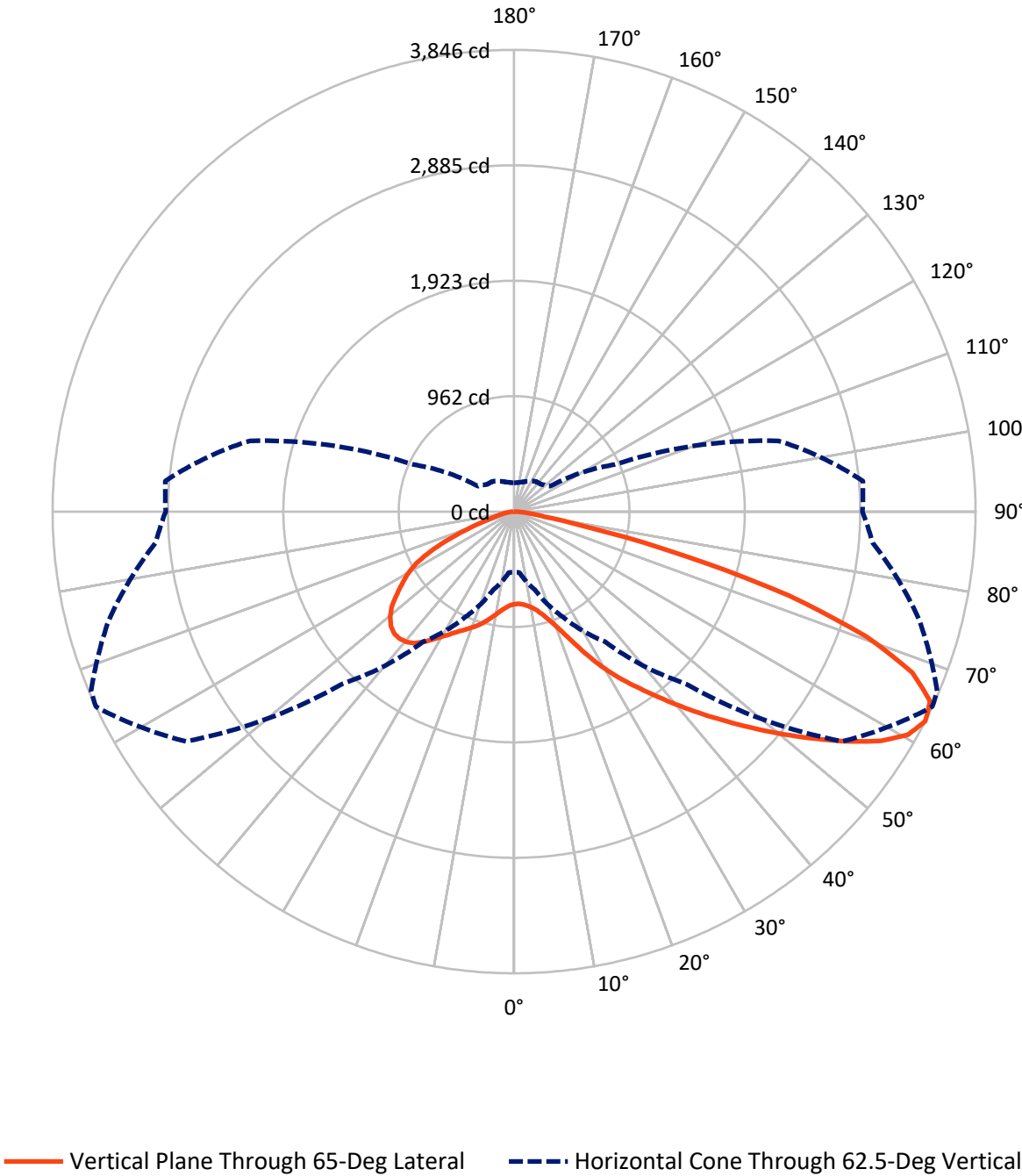


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2206.5	0.0	2206.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	4786.0	0.0	4786.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	6992.5	0.0	6992.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	1.1
10°-20°	260.5	3.7
20°-30°	528.2	7.6
30°-40°	914.1	13.1
40°-50°	1383.3	19.8
50°-60°	1621.8	23.2
60°-70°	1359.7	19.4
70°-80°	750.7	10.7
80°-90°	97.5	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°	6992.5	100.0
0°-180°	6992.5	100.0

Coefficient of Utilization



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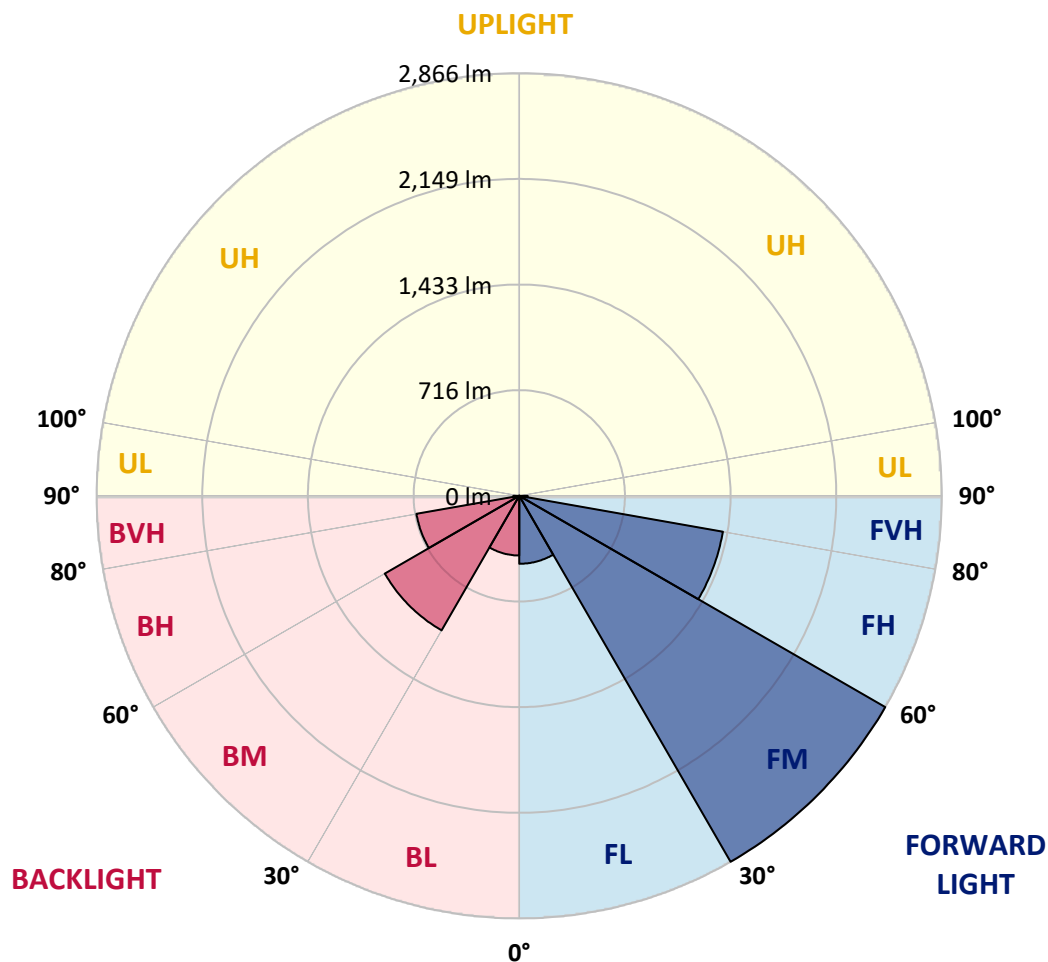
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	460.9	6.6			
FM	(30°-60°)	2865.8	41.0			
FH	(60°-80°)	1402.5	20.1			G1/1800
FVH	(80°-90°)	56.8	0.8			G1/100
BL	(0°-30°)	404.7	5.8	B1/500		
BM	(30°-60°)	1053.4	15.1	B2/2500		
BH	(60°-80°)	707.8	10.1	B2/1000		G2/1000
BVH	(80°-90°)	40.7	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6
2.5°	765.5	763.3	765.1	765.1	765.9	765.5	768.0	768.7	769.8	772.0	772.0
5°	757.9	757.5	760.8	763.6	766.6	769.1	772.3	777.1	777.8	780.3	783.6
7.5°	755.3	753.2	758.2	761.9	768.7	774.9	783.6	791.6	794.9	795.9	802.1
10°	774.9	771.3	776.0	778.2	784.0	790.2	800.3	813.0	816.6	821.0	827.9
12.5°	808.3	804.3	811.2	814.5	819.9	825.3	832.2	844.6	846.3	854.3	860.9
15°	854.0	849.3	853.6	857.6	866.6	871.8	878.6	890.6	890.6	896.8	901.5
17.5°	916.0	909.9	913.2	914.6	920.3	928.0	939.6	950.2	955.6	953.4	946.9
20°	1008.5	1000.9	1000.9	993.6	991.5	997.6	1012.9	1027.4	1033.2	1021.9	1006.0
22.5°	1147.5	1136.6	1130.5	1105.8	1095.9	1096.6	1111.9	1129.7	1134.5	1114.5	1078.5
25°	1324.2	1307.1	1298.8	1262.5	1240.4	1221.1	1233.1	1255.9	1262.5	1237.8	1179.8
27.5°	1500.8	1501.9	1493.9	1450.4	1413.8	1378.5	1372.4	1396.4	1403.2	1375.3	1303.5
30°	1748.6	1722.8	1707.6	1655.4	1603.1	1553.8	1528.4	1538.2	1540.0	1506.6	1423.2
32.5°	1962.3	1955.8	1923.1	1877.4	1810.3	1733.0	1690.5	1675.0	1672.1	1624.5	1525.5
35°	2205.7	2202.1	2167.7	2113.2	2040.7	1933.3	1856.7	1812.1	1808.5	1741.7	1626.7
37.5°	2453.1	2453.1	2419.4	2359.9	2284.8	2150.6	2034.1	1963.4	1951.8	1864.7	1729.8
40°	2650.4	2638.6	2644.7	2619.7	2533.7	2391.1	2231.1	2128.4	2112.8	2008.4	1839.3
42.5°	2762.6	2758.6	2795.6	2823.6	2788.3	2674.4	2448.0	2307.3	2285.5	2166.5	1965.5
45°	2787.6	2783.3	2849.3	2951.6	3000.9	2954.2	2683.9	2495.6	2469.1	2332.0	2100.8
47.5°	2729.9	2721.3	2818.1	2979.6	3137.7	3220.0	2939.3	2699.8	2661.4	2493.0	2239.8
50°	2556.6	2548.1	2694.7	2909.2	3183.8	3400.7	3216.4	2916.4	2857.6	2665.7	2380.3
52.5°	2179.6	2183.6	2413.3	2707.8	3123.2	3513.2	3455.2	3144.6	3073.9	2842.4	2511.9
55°	1697.8	1706.5	1988.8	2313.1	2880.9	3496.2	3618.0	3379.6	3309.3	3008.6	2648.0
57.5°	1215.6	1254.1	1518.6	1839.7	2415.4	3225.9	3653.6	3603.2	3534.9	3189.9	2781.1
60°	787.9	794.9	1066.9	1390.5	1839.3	2745.6	3581.4	3772.6	3719.2	3374.9	2892.4
62.5°	505.0	509.7	675.5	972.6	1323.8	2031.2	3338.3	3846.2	3829.9	3497.2	2999.5
65°	371.2	367.5	453.9	642.9	891.7	1252.7	2866.3	3810.6	3842.9	3573.8	3088.0
67.5°	309.9	304.7	347.2	445.2	657.0	711.5	2120.8	3579.6	3697.8	3565.1	3152.9
70°	282.3	277.9	303.6	330.5	512.6	476.3	1069.1	3111.9	3294.0	3466.0	3142.4
72.5°	239.0	231.4	266.6	293.5	398.7	365.3	441.9	2390.4	2612.4	3148.6	2994.4
75°	185.4	180.3	210.4	258.3	299.6	285.2	279.3	1451.5	1693.8	2435.0	2619.7
77.5°	146.9	140.0	167.6	201.3	269.6	215.1	203.6	625.0	865.2	1554.5	1960.1
80°	110.6	104.4	127.3	159.3	207.2	162.2	131.7	255.0	326.2	787.6	985.6
82.5°	78.7	73.3	88.9	116.8	139.3	145.4	80.9	142.9	160.7	303.6	220.2
85°	50.4	47.2	59.4	73.3	88.6	93.6	49.3	74.7	82.0	125.2	91.7
87.5°	27.6	22.4	31.9	34.1	41.0	37.4	23.6	27.2	29.4	45.3	38.8
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°	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6	770.6
2.5°	773.5	774.5	778.2	779.2	781.8	785.0	787.2	789.5	789.5	791.6	791.6
5°	784.0	786.5	794.2	798.2	804.6	811.2	815.2	819.9	822.8	824.2	824.9
7.5°	804.3	808.3	819.2	826.0	837.3	846.3	852.5	859.1	860.5	864.5	863.0
10°	831.9	836.6	848.9	861.9	875.4	886.6	892.5	897.2	898.9	899.7	897.9
12.5°	863.5	870.3	886.3	902.2	916.4	926.2	927.6	926.5	921.5	917.1	917.1
15°	902.2	908.4	926.2	943.6	957.4	959.2	950.2	944.3	938.2	937.1	937.1
17.5°	948.6	951.9	968.2	985.3	986.4	980.2	966.8	961.3	955.6	951.6	951.9
20°	1002.8	1001.6	1013.2	1020.5	1012.9	994.0	973.7	964.6	958.8	954.1	954.5
22.5°	1067.3	1058.9	1057.5	1055.6	1035.4	995.8	968.2	956.6	947.6	941.1	943.2
25°	1161.2	1129.3	1107.2	1094.9	1049.2	986.0	950.9	925.1	908.0	896.8	901.2
27.5°	1278.8	1225.1	1169.2	1139.2	1049.2	966.1	908.8	867.0	839.1	827.5	833.3
30°	1390.9	1334.7	1252.3	1192.5	1046.6	933.5	840.9	782.9	750.2	738.6	745.5
32.5°	1486.7	1425.4	1340.5	1250.9	1040.5	880.5	756.8	692.6	661.0	647.2	654.1
35°	1575.5	1510.2	1429.0	1315.1	1024.2	802.9	664.3	615.3	580.0	557.9	565.2
37.5°	1666.6	1589.0	1512.8	1373.1	994.8	712.2	593.2	551.4	510.0	480.3	488.3
40°	1765.7	1672.8	1602.4	1407.6	946.5	625.8	538.0	499.9	456.0	424.5	430.6
42.5°	1881.4	1773.2	1702.2	1425.4	880.5	564.5	502.0	464.7	423.3	397.6	402.7
45°	2002.2	1884.0	1793.2	1425.1	806.8	535.9	490.5	453.5	407.7	380.9	385.3
47.5°	2128.8	1999.7	1872.0	1401.8	743.0	539.9	483.9	429.2	378.7	352.6	356.3
50°	2255.8	2126.3	1948.1	1358.2	715.8	531.2	459.6	395.0	335.6	312.0	313.4
52.5°	2381.7	2260.8	2013.8	1296.2	688.2	498.9	428.4	350.9	317.8	301.5	301.5
55°	2508.3	2394.0	2085.3	1205.9	619.3	461.0	376.2	334.2	303.6	288.7	287.3
57.5°	2635.3	2547.8	2153.1	1115.5	532.6	414.6	347.6	313.9	289.5	276.9	274.6
60°	2767.3	2723.7	2223.1	1032.5	446.9	355.2	326.5	297.5	272.9	258.7	257.6
62.5°	2903.3	2917.5	2277.9	925.5	368.2	318.9	307.6	277.9	254.0	240.6	240.2
65°	3040.5	3104.3	2313.8	777.1	298.6	284.4	287.3	256.5	232.2	220.6	220.2
67.5°	3143.9	3238.9	2303.7	588.0	244.9	251.7	261.9	234.0	211.2	202.0	202.4
70°	3155.5	3222.9	2203.5	402.7	205.0	219.9	233.6	211.9	188.3	181.7	182.1
72.5°	3000.9	3005.3	1924.5	263.0	173.4	193.0	203.9	189.4	166.6	160.0	159.6
75°	2595.7	2485.4	1413.1	173.4	145.1	165.7	176.0	165.7	143.7	145.1	140.0
77.5°	1966.7	1760.2	858.0	123.3	121.2	139.3	153.1	145.9	127.0	142.6	125.6
80°	1013.2	952.3	382.7	92.1	95.7	111.4	125.9	116.4	100.4	95.7	87.4
82.5°	232.2	269.9	150.9	66.0	69.3	80.2	96.1	87.4	72.2	61.0	60.3
85°	81.3	88.9	66.7	41.3	40.6	50.0	65.3	58.4	49.0	39.2	41.3
87.5°	25.7	33.7	25.0	16.7	17.4	22.4	30.1	27.6	22.9	14.9	15.6
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)