

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: P962523

Luminaire Tested: **NAV-SB2C-750-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-750-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16542.5 lumens
Efficiency: N/A
Efficacy: 163.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 100.9
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



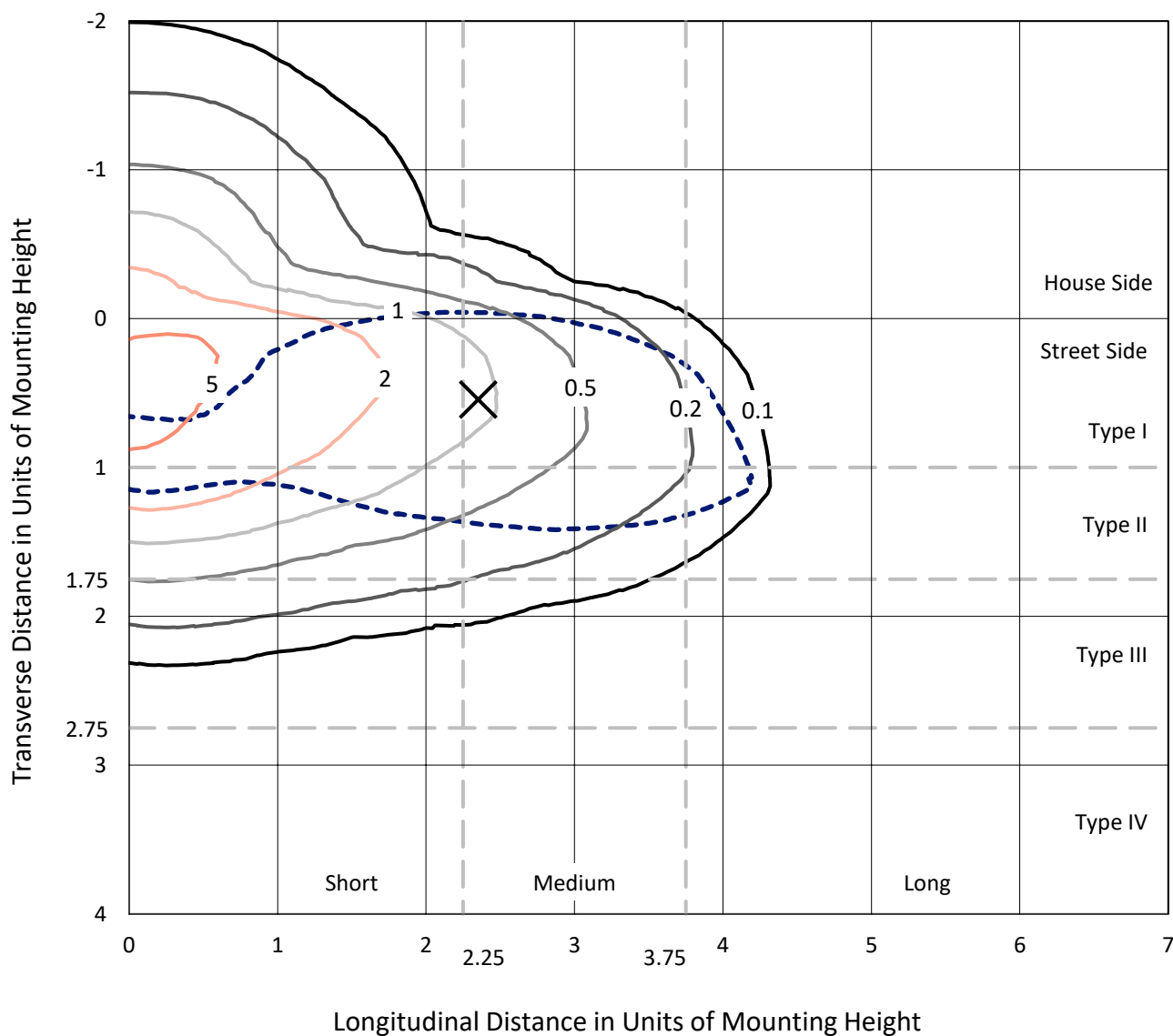
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

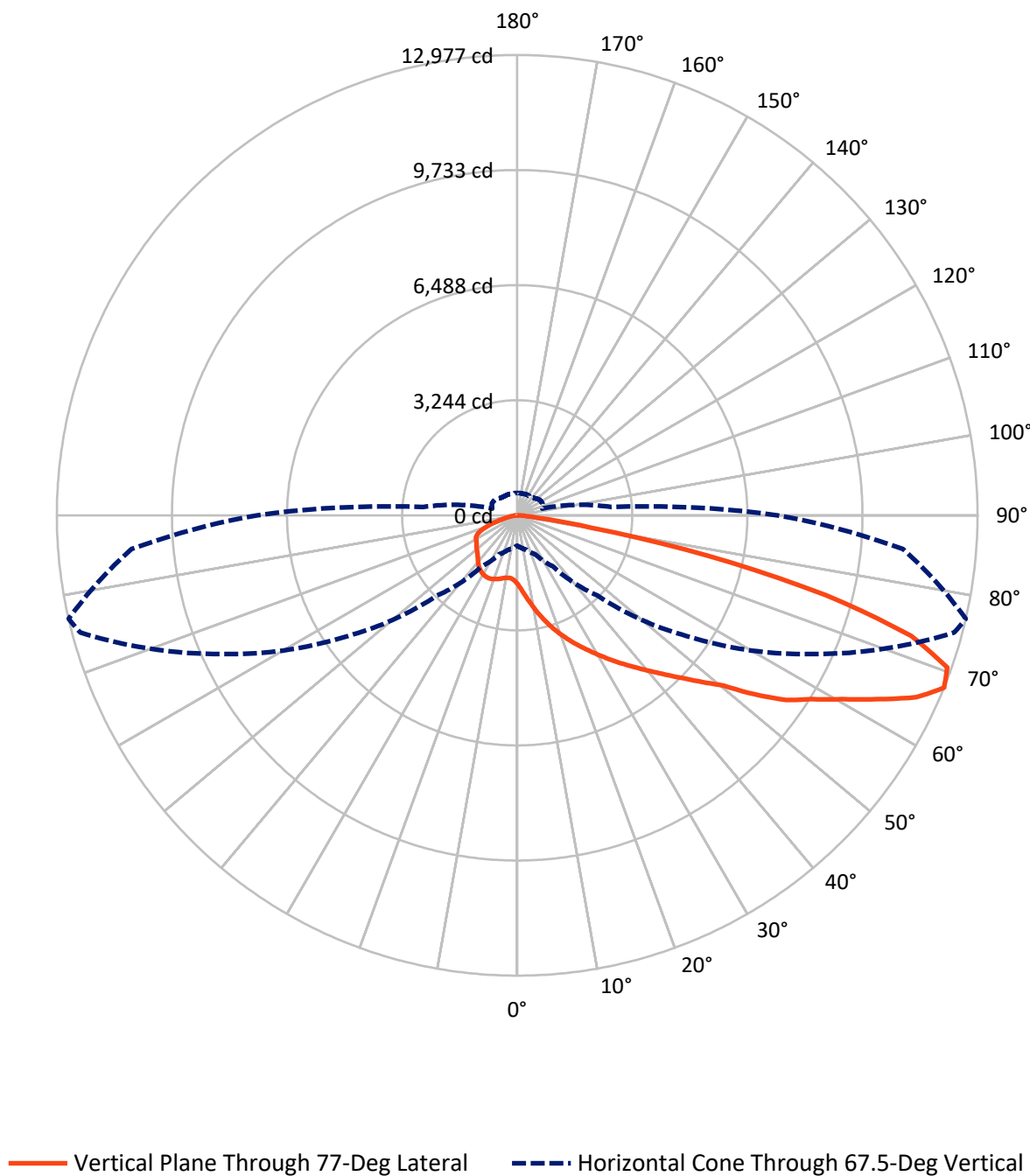
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3129.2	0.0	3129.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	13413.3	0.0	13413.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	16542.5	0.0	16542.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.0	1.3
10°-20°	747.4	4.5
20°-30°	1411.2	8.5
30°-40°	2273.4	13.7
40°-50°	3109.6	18.8
50°-60°	3507.7	21.2
60°-70°	3274.0	19.8
70°-80°	1794.7	10.8
80°-90°	216.5	1.3
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°	16542.5	100.0
0°-180°	16542.5	100.0

Coefficient of Utilization



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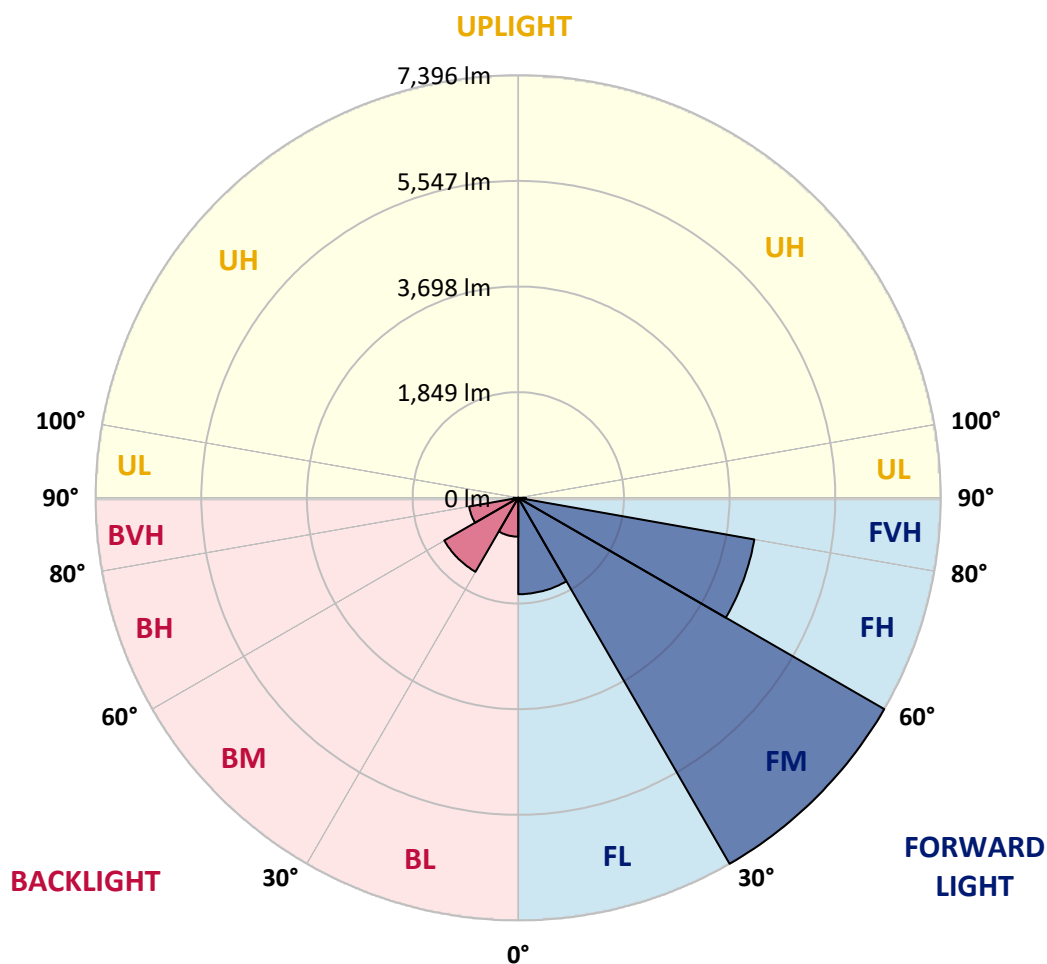
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1686.3	10.2			
FM	(30°-60°)	7396.0	44.7			
FH	(60°-80°)	4195.7	25.4			G2/5000
FVH	(80°-90°)	135.4	0.8			G2/225
BL	(0°-30°)	680.4	4.1	B2/1000		
BM	(30°-60°)	1494.7	9.0	B2/2500		
BH	(60°-80°)	873.0	5.3	B2/1000		G2/1000
BVH	(80°-90°)	81.1	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9
2.5°	2430.3	2447.3	2426.0	2426.0	2354.2	2316.7	2245.0	2190.3	2092.1	2075.0	2010.1
5°	2872.6	2893.9	2864.1	2851.2	2766.7	2689.0	2568.5	2449.9	2274.8	2256.8	2104.0
7.5°	3215.0	3242.3	3215.8	3202.2	3127.1	3039.9	2899.0	2733.4	2486.5	2451.6	2230.4
10°	3494.2	3498.5	3489.9	3495.0	3436.1	3364.5	3220.1	3027.1	2718.8	2671.0	2383.2
12.5°	3652.2	3671.9	3688.9	3719.6	3709.4	3665.0	3535.2	3304.6	2964.8	2903.3	2549.8
15°	3726.5	3760.6	3799.1	3869.9	3927.2	3938.3	3839.2	3602.7	3215.0	3140.7	2718.0
17.5°	3752.9	3785.4	3846.0	3948.5	4071.5	4154.3	4109.8	3892.1	3462.7	3377.3	2894.8
20°	3887.0	3896.4	3933.1	4030.5	4163.7	4301.2	4334.4	4170.5	3707.7	3611.2	3077.5
22.5°	4173.9	4155.1	4165.4	4209.8	4305.4	4438.7	4514.6	4416.4	3959.6	3848.6	3262.0
25°	4647.9	4593.2	4538.6	4487.3	4536.0	4611.2	4697.4	4662.4	4223.4	4082.6	3448.1
27.5°	5246.5	5179.8	5059.4	4891.2	4832.3	4858.8	4897.2	4890.4	4467.7	4325.1	3640.2
30°	5835.6	5757.9	5614.4	5371.1	5215.7	5145.7	5116.7	5097.0	4733.2	4581.2	3834.1
32.5°	6306.1	6244.7	6103.8	5831.3	5605.9	5486.4	5389.9	5319.9	5010.8	4858.8	4039.0
35°	6717.7	6660.6	6499.1	6202.0	5956.9	5829.7	5703.3	5553.9	5299.4	5145.7	4259.3
37.5°	7093.5	7036.2	6815.1	6506.0	6259.2	6171.2	6058.6	5804.9	5588.9	5443.7	4492.5
40°	7330.8	7318.1	7111.3	6761.3	6505.2	6461.6	6424.0	6096.1	5909.9	5775.1	4748.6
42.5°	7391.5	7419.7	7255.7	6968.0	6723.7	6688.7	6776.7	6425.7	6270.3	6141.4	5038.9
45°	7245.4	7326.6	7219.0	7023.4	6879.1	6860.3	7089.2	6786.0	6669.1	6551.2	5389.0
47.5°	6875.7	7013.2	6968.8	6941.5	6921.0	7002.1	7364.1	7168.6	7120.8	7018.3	5788.7
50°	6129.4	6389.8	6467.5	6640.1	6838.2	7112.3	7614.3	7586.1	7648.6	7545.2	6275.5
52.5°	4839.1	5197.8	5648.7	6080.7	6583.7	7075.6	7889.3	8185.6	8448.7	8392.3	7049.0
55°	3994.6	4156.0	4502.7	5295.2	6090.1	6921.0	8013.1	8669.8	9242.7	9192.4	7635.7
57.5°	3345.6	3489.9	3703.4	4365.2	5343.8	6570.0	8090.0	8965.3	9786.7	9781.6	8214.7
60°	2649.7	2802.6	3021.2	3489.9	4472.0	5963.8	8072.9	9301.7	10480.9	10523.7	8920.9
62.5°	1864.1	2032.3	2274.8	2712.0	3581.4	5178.1	7724.5	9545.0	11298.2	11414.3	9770.5
65°	1225.4	1336.4	1519.2	1896.6	2668.5	4168.0	7059.3	9576.7	12172.6	12369.0	10568.1
67.5°	859.1	901.7	1009.3	1214.2	1759.1	3196.2	5999.6	9249.6	12755.7	12976.9	10913.9
70°	670.3	691.7	746.3	828.3	1104.9	2149.3	4597.4	8399.1	12631.1	12861.7	10552.7
72.5°	578.9	599.4	619.9	630.2	741.2	1327.0	3114.3	7022.6	11456.9	11613.2	9175.3
75°	525.1	530.2	547.3	544.0	565.3	860.8	1797.4	5116.7	9039.6	8985.8	6773.2
77.5°	441.5	448.3	476.5	472.2	502.1	588.3	933.4	3302.0	5860.4	5494.9	3770.1
80°	374.0	377.4	408.2	403.0	436.3	426.1	476.5	1683.0	2485.7	2105.8	1087.0
82.5°	129.8	160.5	311.7	321.0	333.0	257.9	275.0	686.5	759.1	581.5	228.0
85°	63.1	67.4	158.9	225.4	224.6	129.8	134.1	245.1	239.1	187.9	76.0
87.5°	10.2	12.8	18.8	87.9	70.0	34.1	46.1	47.9	49.5	42.7	17.1
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°	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9
2.5°	1962.3	1919.6	1829.9	1747.1	1682.2	1619.9	1584.9	1555.0	1537.9	1534.5	1534.5
5°	2015.3	1927.3	1764.2	1626.7	1537.1	1470.5	1435.4	1413.3	1402.1	1395.3	1394.4
7.5°	2091.2	1962.3	1730.0	1573.8	1479.8	1432.0	1414.1	1410.7	1409.8	1410.7	1413.3
10°	2196.3	2019.6	1726.6	1561.0	1482.4	1455.9	1455.1	1455.9	1459.3	1460.2	1461.0
12.5°	2309.8	2078.4	1740.2	1572.0	1514.8	1500.3	1497.7	1496.9	1499.5	1501.2	1502.0
15°	2433.7	2156.1	1763.3	1595.9	1550.7	1535.3	1532.8	1527.7	1526.8	1525.9	1525.1
17.5°	2560.9	2233.0	1788.9	1621.6	1573.8	1552.5	1543.0	1531.0	1521.7	1519.2	1521.7
20°	2689.8	2309.0	1806.9	1634.4	1575.4	1545.6	1526.8	1506.3	1490.0	1480.7	1484.1
22.5°	2827.4	2388.4	1817.9	1631.0	1560.0	1519.2	1484.9	1461.0	1436.3	1420.0	1421.0
25°	2961.3	2457.5	1817.1	1613.0	1530.2	1478.2	1434.6	1403.8	1369.7	1352.6	1352.6
27.5°	3090.3	2519.9	1795.8	1581.5	1487.5	1429.5	1377.4	1340.6	1307.4	1291.1	1290.3
30°	3223.5	2572.0	1762.5	1535.3	1437.2	1373.1	1315.9	1284.3	1254.4	1239.0	1238.2
32.5°	3355.8	2619.8	1715.5	1478.2	1379.0	1317.6	1261.3	1232.2	1214.2	1214.2	1215.1
35°	3496.0	2653.1	1653.2	1411.5	1317.6	1258.7	1214.2	1197.2	1195.5	1185.2	1182.6
37.5°	3643.7	2674.4	1577.2	1343.2	1257.0	1201.5	1187.8	1167.3	1150.3	1128.0	1124.6
40°	3799.1	2695.9	1485.8	1272.3	1192.9	1162.1	1156.2	1128.8	1080.2	1025.5	1017.8
42.5°	3987.8	2710.3	1391.0	1201.5	1125.4	1115.2	1123.7	1076.8	999.1	958.1	959.0
45°	4206.4	2734.2	1303.9	1131.4	1056.3	1056.3	1092.1	1030.6	966.7	941.1	945.3
47.5°	4489.9	2789.7	1222.8	1054.6	992.2	1009.3	1022.1	975.2	939.3	907.7	906.8
50°	4899.8	2923.0	1139.1	976.9	943.6	977.7	959.8	932.4	890.6	865.0	862.4
52.5°	5408.7	3001.5	1064.9	906.8	901.7	935.9	910.3	884.7	853.1	818.9	812.1
55°	5755.4	3016.1	1002.4	855.7	873.5	870.1	860.8	837.7	820.6	775.3	776.2
57.5°	6143.0	3045.1	951.3	824.9	855.7	818.1	814.7	795.0	772.7	742.1	731.8
60°	6606.7	3090.3	906.8	812.9	840.3	783.9	766.8	759.1	737.0	721.6	725.8
62.5°	7112.3	3131.3	861.6	814.7	822.4	750.6	725.0	722.4	708.8	703.7	703.7
65°	7457.2	3019.4	805.2	812.9	794.2	716.5	684.0	683.2	672.0	670.3	669.4
67.5°	7336.8	2665.1	729.3	789.0	765.1	682.2	646.4	643.0	628.5	629.3	629.3
70°	6733.9	2159.6	624.2	730.1	729.3	651.5	607.1	596.0	576.4	579.8	583.2
72.5°	5603.4	1600.2	483.3	631.9	672.0	623.4	561.9	544.0	519.2	522.5	521.7
75°	4046.7	1087.9	351.8	480.7	585.0	590.1	517.5	486.8	456.8	462.0	463.7
77.5°	2070.7	616.5	258.7	331.3	459.4	536.3	477.3	436.3	429.5	477.3	470.5
80°	675.5	309.1	179.3	232.3	301.5	438.9	418.4	371.5	369.7	380.9	327.1
82.5°	201.5	130.7	115.3	152.8	166.6	336.4	361.2	281.0	241.7	254.5	263.0
85°	69.2	63.1	65.7	76.0	79.4	197.2	252.8	186.1	175.9	193.8	191.3
87.5°	16.2	22.2	18.8	17.1	17.1	47.9	98.2	77.7	107.6	71.8	69.2
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)