

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: P962883

Luminaire Tested: **NAV-SB2D-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2D-722-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17126.7 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

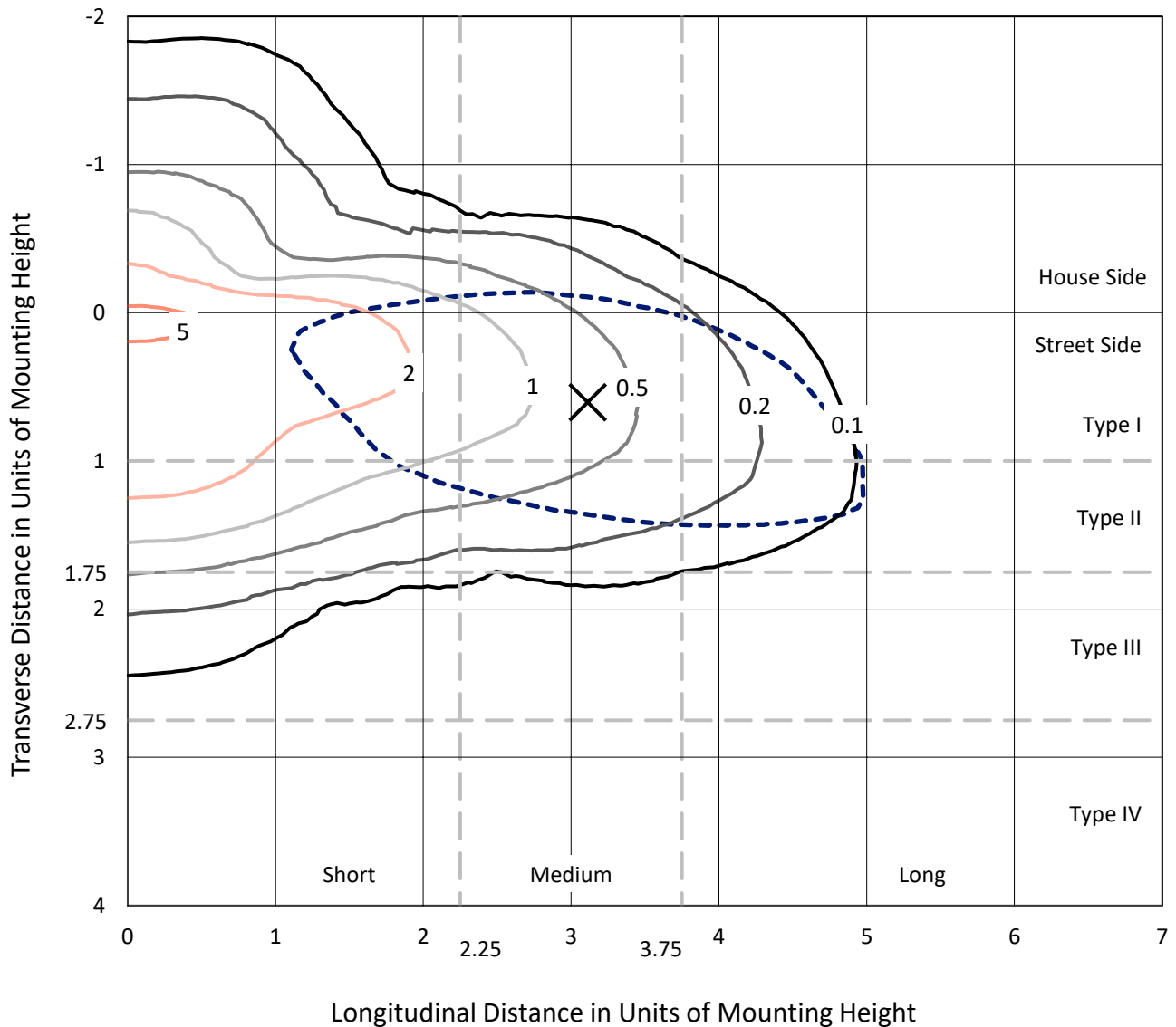
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

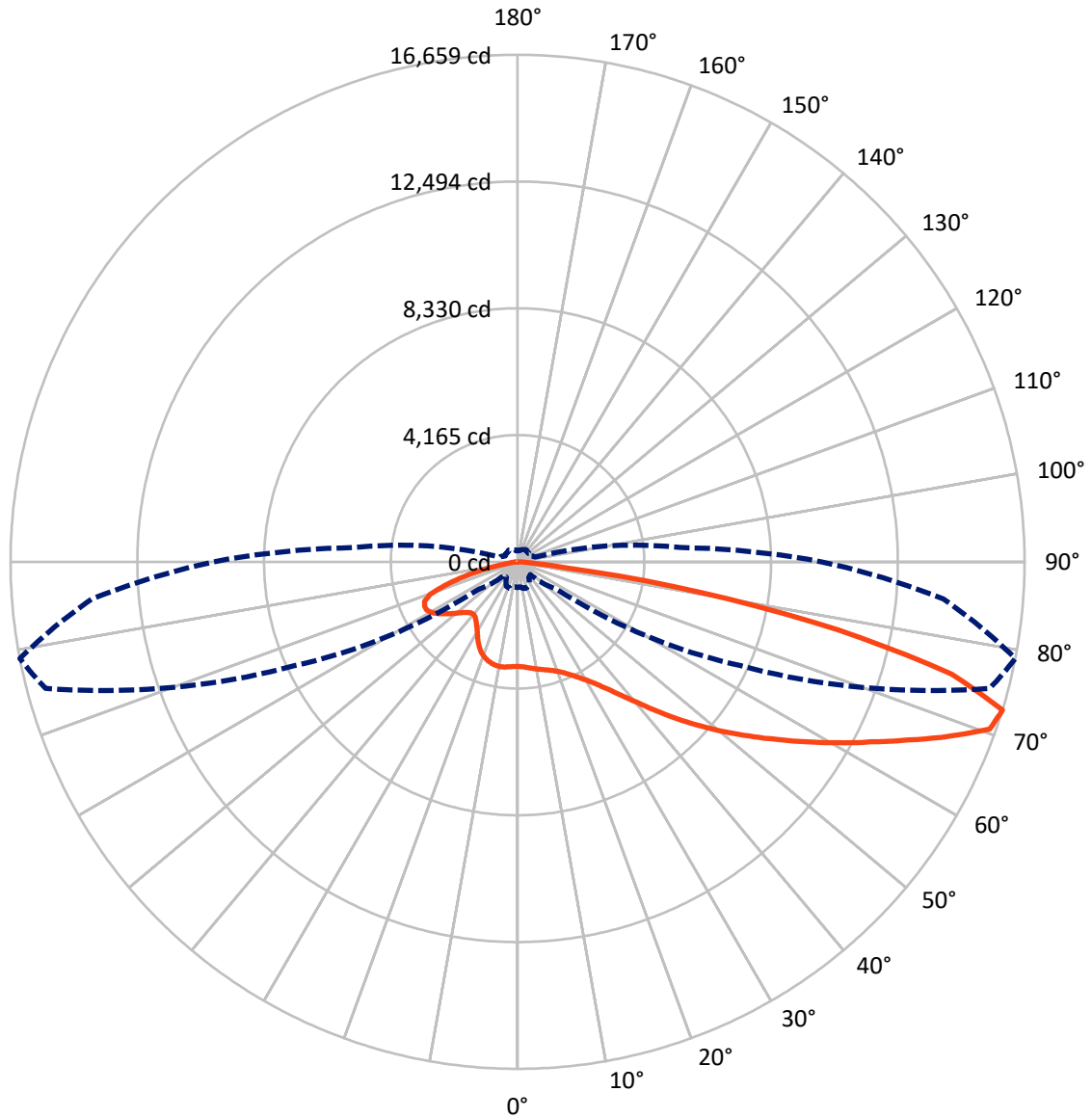
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3768.8	0.0	3768.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	13357.9	0.0	13357.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	17126.7	0.0	17126.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.1	1.8
10°-20°	815.9	4.8
20°-30°	1316.6	7.7
30°-40°	1976.0	11.5
40°-50°	2803.0	16.4
50°-60°	3539.8	20.7
60°-70°	3595.2	21.0
70°-80°	2450.3	14.3
80°-90°	317.9	1.9
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°	17126.7	100.0
0°-180°	17126.7	100.0

Coefficient of Utilization



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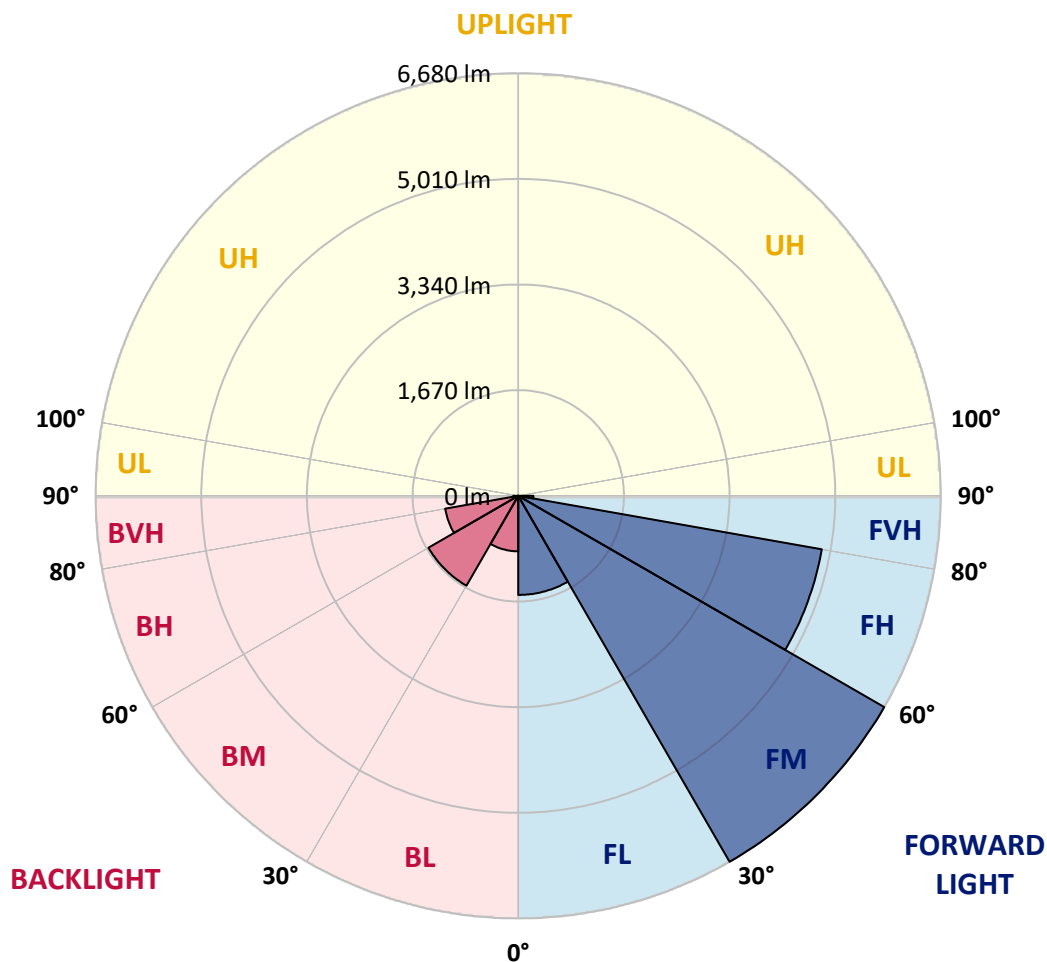
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1566.7	9.1			
FM (30°-60°)	6679.8	39.0			
FH (60°-80°)	4872.0	28.4			G2/5000
FVH (80°-90°)	239.5	1.4			G3/500
BL (0°-30°)	877.9	5.1	B2/1000		
BM (30°-60°)	1639.0	9.6	B2/2500		
BH (60°-80°)	1173.5	6.9	B3/2500		G3/2500
BVH (80°-90°)	78.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3438.1	3438.1	3438.1	3438.1	3438.1	3438.1	3438.1	3438.1	3438.1	3438.1	3438.1
2.5°	3439.8	3423.5	3433.5	3429.9	3434.4	3439.8	3441.6	3444.4	3453.4	3452.5	3451.6
5°	3432.6	3416.3	3429.9	3425.3	3437.1	3449.8	3460.7	3470.6	3485.1	3491.5	3482.4
7.5°	3417.1	3406.3	3419.9	3433.5	3455.3	3474.2	3489.7	3512.3	3533.2	3536.8	3543.1
10°	3327.5	3319.4	3351.0	3386.4	3446.2	3497.8	3531.3	3557.6	3580.2	3583.9	3592.9
12.5°	3234.2	3224.2	3259.6	3307.6	3404.5	3497.8	3568.4	3602.9	3622.9	3634.6	3648.2
15°	3218.8	3210.6	3230.6	3272.2	3352.9	3473.3	3593.9	3657.3	3674.5	3688.1	3693.5
17.5°	3293.1	3277.6	3285.8	3300.3	3347.4	3450.7	3613.7	3718.9	3745.1	3759.6	3759.6
20°	3465.2	3443.5	3430.8	3401.8	3393.7	3454.4	3612.0	3793.1	3827.6	3845.7	3850.2
22.5°	3694.4	3680.0	3652.7	3579.4	3499.7	3498.7	3646.4	3888.2	3952.6	3969.8	3959.0
25°	3971.7	3949.8	3915.5	3815.8	3662.7	3586.6	3704.3	4009.7	4117.5	4122.0	4090.3
27.5°	4290.5	4257.8	4210.8	4079.4	3872.9	3724.3	3793.1	4149.2	4306.8	4305.0	4239.8
30°	4626.6	4594.0	4544.1	4384.7	4124.7	3910.1	3916.3	4299.6	4531.5	4521.5	4410.1
32.5°	4872.1	4847.6	4837.7	4714.5	4414.7	4129.2	4057.7	4466.2	4808.7	4799.7	4643.9
35°	5060.5	5028.9	5040.6	4978.1	4730.8	4374.8	4230.7	4664.7	5145.7	5144.8	4951.0
37.5°	5247.2	5219.1	5229.0	5187.4	5023.4	4686.4	4441.8	4907.5	5563.4	5583.3	5322.4
40°	5417.5	5387.6	5427.5	5388.5	5250.8	5018.0	4681.9	5182.0	6047.1	6085.2	5771.7
42.5°	5519.8	5496.4	5562.5	5563.4	5448.3	5297.9	4945.5	5484.6	6606.9	6692.1	6324.4
45°	5555.2	5547.1	5646.7	5667.5	5623.2	5460.1	5182.8	5814.3	7210.4	7362.6	6954.0
47.5°	5517.2	5501.8	5639.4	5716.4	5751.8	5536.1	5379.4	6171.2	7826.4	8049.2	7640.7
50°	5325.1	5295.2	5499.9	5662.1	5788.1	5586.0	5577.8	6583.5	8526.7	8770.4	8331.0
52.5°	4980.0	4957.3	5190.1	5471.9	5708.3	5610.4	5800.7	7033.7	9191.6	9506.9	9038.6
55°	4538.7	4508.9	4765.2	5133.0	5509.9	5602.3	6023.6	7537.3	9976.1	10295.9	9769.6
57.5°	3839.3	3779.6	4103.9	4538.7	5186.5	5592.3	6255.5	8038.4	10773.4	11156.6	10549.6
60°	2819.3	2730.5	3128.2	3643.7	4554.2	5495.4	6542.7	8600.1	11730.1	12075.2	11401.2
62.5°	1641.5	1589.9	1849.9	2331.0	3432.6	4924.7	6703.9	9253.2	12670.4	13032.8	12238.3
65°	1274.7	1260.1	1282.8	1320.0	1910.6	3687.1	6206.6	9890.1	13866.3	14119.9	13110.7
67.5°	1165.9	1155.1	1165.0	1095.3	969.3	2053.8	4910.2	10051.4	15147.2	15301.3	13874.4
70°	1036.4	1023.7	1056.4	996.5	762.8	934.0	3172.6	9466.1	16166.4	16455.5	14455.2
72.5°	844.3	829.8	905.9	878.7	642.3	599.7	1593.6	8075.5	16059.5	16659.2	14039.3
75°	648.6	640.5	731.1	753.8	523.7	472.0	764.6	6002.7	14132.6	14736.8	12099.7
77.5°	503.7	497.3	543.6	626.0	422.2	366.0	470.2	3807.7	10650.2	10756.1	8338.3
80°	377.8	359.7	402.2	484.7	328.8	267.2	318.9	2220.5	6732.0	6102.3	3629.2
82.5°	236.5	227.3	262.7	323.4	232.0	183.9	207.5	1226.6	2697.9	1589.1	700.3
85°	135.0	131.4	143.1	184.8	126.0	106.0	118.7	541.7	492.8	338.9	211.0
87.5°	54.3	52.6	65.2	82.4	46.2	38.9	41.7	130.5	108.8	100.6	69.8
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°	3438.1	3438.1	3438.1	3438.1	3438.1	3438.1	3438.1	3438.1	3438.1	3438.1	3438.1
2.5°	3448.0	3448.0	3435.3	3415.4	3392.7	3378.2	3354.7	3348.4	3323.9	3316.6	3328.4
5°	3489.7	3482.4	3443.5	3387.3	3310.3	3239.6	3161.7	3112.8	3043.9	3019.4	3037.6
7.5°	3542.2	3522.3	3455.3	3332.1	3170.7	3012.3	2847.3	2722.3	2602.8	2560.1	2565.6
10°	3590.3	3562.2	3448.0	3232.3	2953.3	2678.8	2416.1	2232.2	2092.7	2035.6	2048.4
12.5°	3638.2	3586.6	3400.0	3066.6	2644.4	2272.1	1992.2	1849.0	1763.0	1694.1	1716.8
15°	3683.5	3611.1	3325.7	2844.7	2305.6	1927.8	1721.3	1607.1	1538.3	1493.0	1501.1
17.5°	3736.1	3631.9	3214.3	2562.9	1983.1	1689.6	1521.1	1452.2	1438.6	1433.2	1436.8
20°	3809.4	3650.9	3067.5	2247.6	1745.8	1499.4	1412.3	1406.0	1405.1	1402.4	1411.4
22.5°	3888.2	3673.6	2873.6	1961.3	1543.8	1380.7	1365.2	1352.6	1344.4	1343.5	1353.5
25°	3981.6	3680.8	2630.9	1726.7	1371.6	1324.5	1306.4	1287.3	1281.9	1281.9	1287.3
27.5°	4072.2	3656.4	2348.2	1522.8	1274.7	1272.8	1249.3	1242.9	1242.0	1244.8	1252.0
30°	4162.7	3610.2	2067.3	1334.4	1218.5	1218.5	1210.3	1214.8	1218.5	1227.5	1233.9
32.5°	4285.1	3561.3	1832.7	1194.9	1169.5	1160.5	1168.7	1177.7	1181.3	1193.1	1203.0
35°	4464.5	3526.8	1646.0	1118.8	1118.8	1107.1	1111.6	1109.8	1101.6	1096.1	1108.8
37.5°	4701.8	3525.0	1492.1	1083.5	1076.2	1074.4	1075.3	1063.5	1031.9	993.8	994.8
40°	4987.1	3573.9	1373.4	1059.0	1053.6	1064.5	1059.0	1027.4	940.3	874.2	872.4
42.5°	5370.4	3713.5	1297.3	1029.1	1045.5	1059.0	1037.3	927.7	868.8	824.4	822.6
45°	5821.6	3939.9	1258.4	997.4	1030.0	1046.3	941.3	893.3	846.1	792.7	789.0
47.5°	6332.4	4225.3	1249.3	967.5	995.6	1005.6	900.5	878.7	825.3	767.3	762.8
50°	6888.7	4563.2	1273.8	932.2	945.8	911.3	886.9	866.9	811.7	754.6	748.4
52.5°	7464.0	4935.6	1322.7	884.2	896.0	857.9	881.5	864.3	803.6	726.5	721.1
55°	8029.3	5310.6	1369.8	828.0	845.2	810.0	866.1	853.4	766.4	679.5	675.0
57.5°	8603.6	5683.8	1415.9	778.2	796.3	763.7	841.6	824.4	724.8	636.0	634.2
60°	9200.7	6046.2	1437.8	730.2	742.8	721.1	804.4	774.6	677.6	591.5	588.9
62.5°	9759.6	6347.9	1402.4	682.1	690.3	681.2	755.5	715.7	630.6	541.7	540.9
65°	10320.4	6527.3	1293.7	635.1	636.8	632.3	686.7	652.3	575.2	498.3	492.8
67.5°	10828.6	6627.9	1120.6	584.4	579.8	578.0	622.4	583.4	521.8	454.8	449.4
70°	10936.4	6372.3	856.1	524.5	524.5	520.0	551.8	511.9	462.9	408.6	406.7
72.5°	9988.8	5360.4	607.9	456.6	463.8	454.8	481.0	447.5	403.1	367.0	356.0
75°	8054.7	3930.9	442.1	386.8	399.5	384.1	408.6	385.0	347.0	346.0	311.6
77.5°	5534.4	2430.6	320.7	318.9	328.0	308.0	336.1	323.4	288.9	273.6	256.4
80°	2361.8	969.3	233.7	246.4	246.4	228.3	260.9	264.6	234.6	227.3	227.3
82.5°	470.2	275.4	164.0	169.4	159.5	154.1	184.8	204.7	282.7	314.4	315.3
85°	141.3	101.5	98.7	92.5	81.5	82.4	108.8	205.6	253.7	144.9	125.0
87.5°	38.9	25.3	26.2	20.8	17.2	22.7	37.1	155.8	85.2	36.3	30.9
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)