

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: P965009

Luminaire Tested: **NAV-SB3D-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-722-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26540.3 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

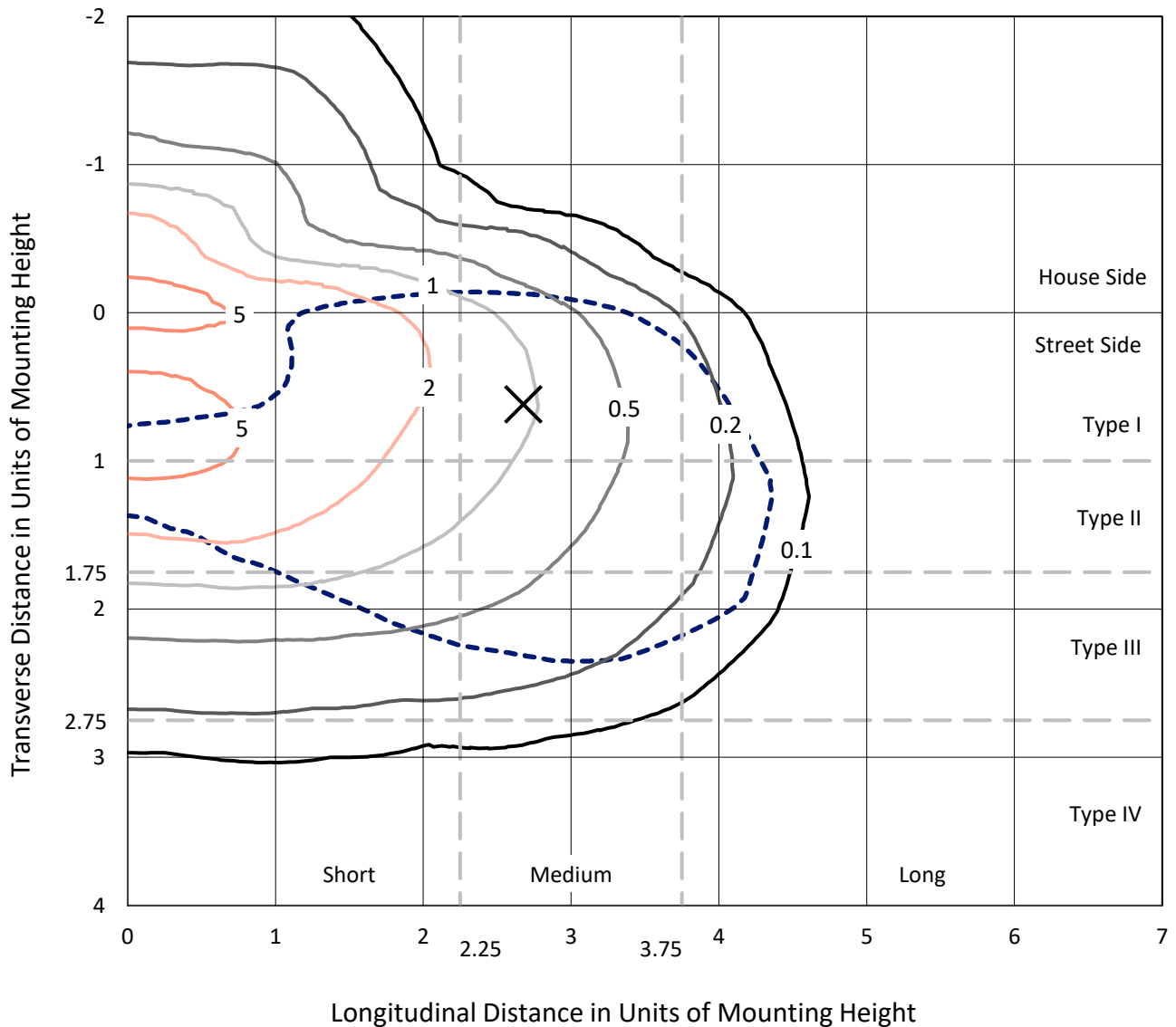
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

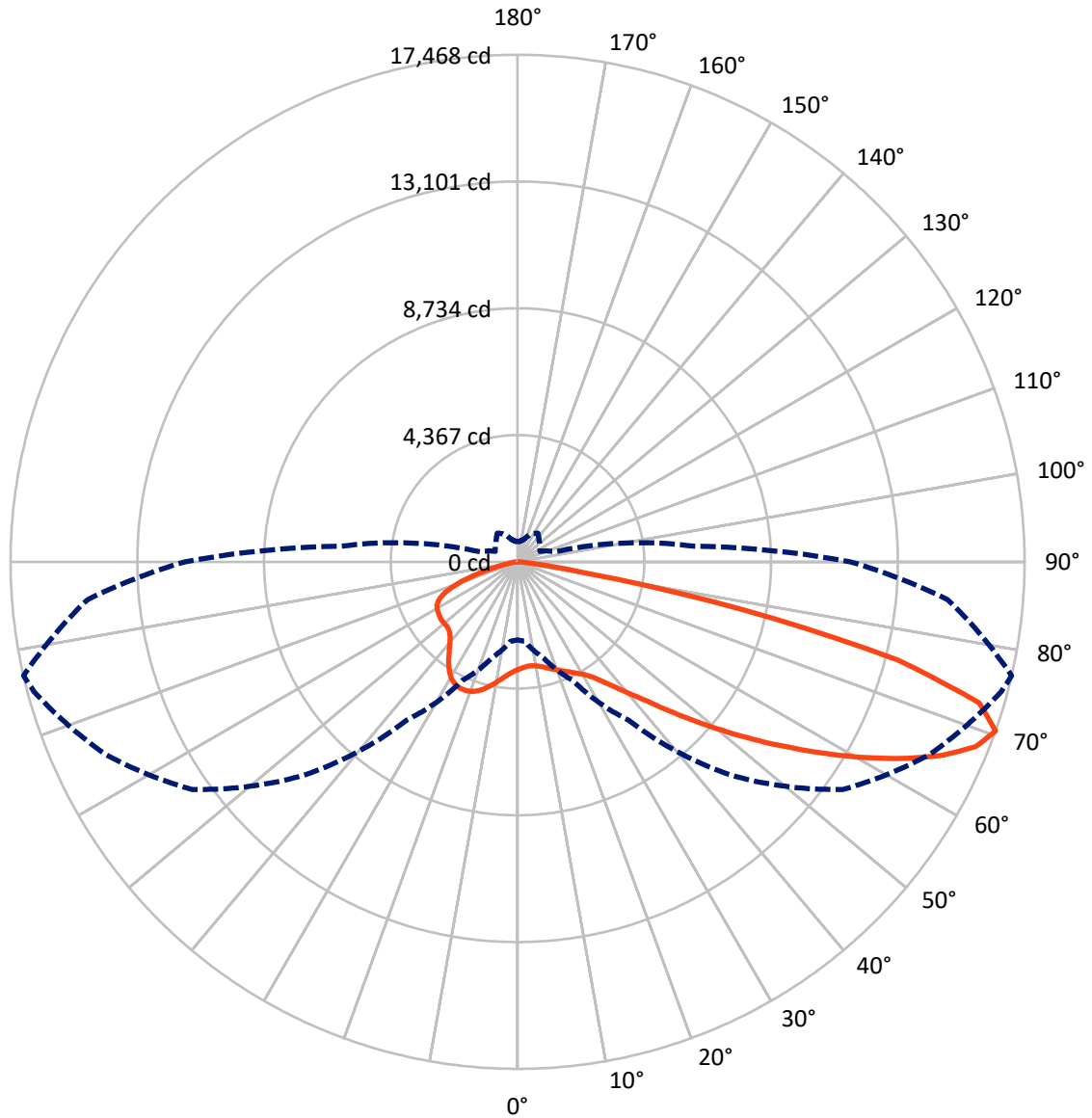
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5811.9	0.0	5811.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	20728.4	0.0	20728.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	26540.3	0.0	26540.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.1	1.3
10°-20°	1019.2	3.8
20°-30°	1742.9	6.6
30°-40°	2802.8	10.6
40°-50°	4375.9	16.5
50°-60°	5845.2	22.0
60°-70°	6230.0	23.5
70°-80°	3835.2	14.5
80°-90°	336.1	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°	26540.3	100.0
0°-180°	26540.3	100.0

Coefficient of Utilization

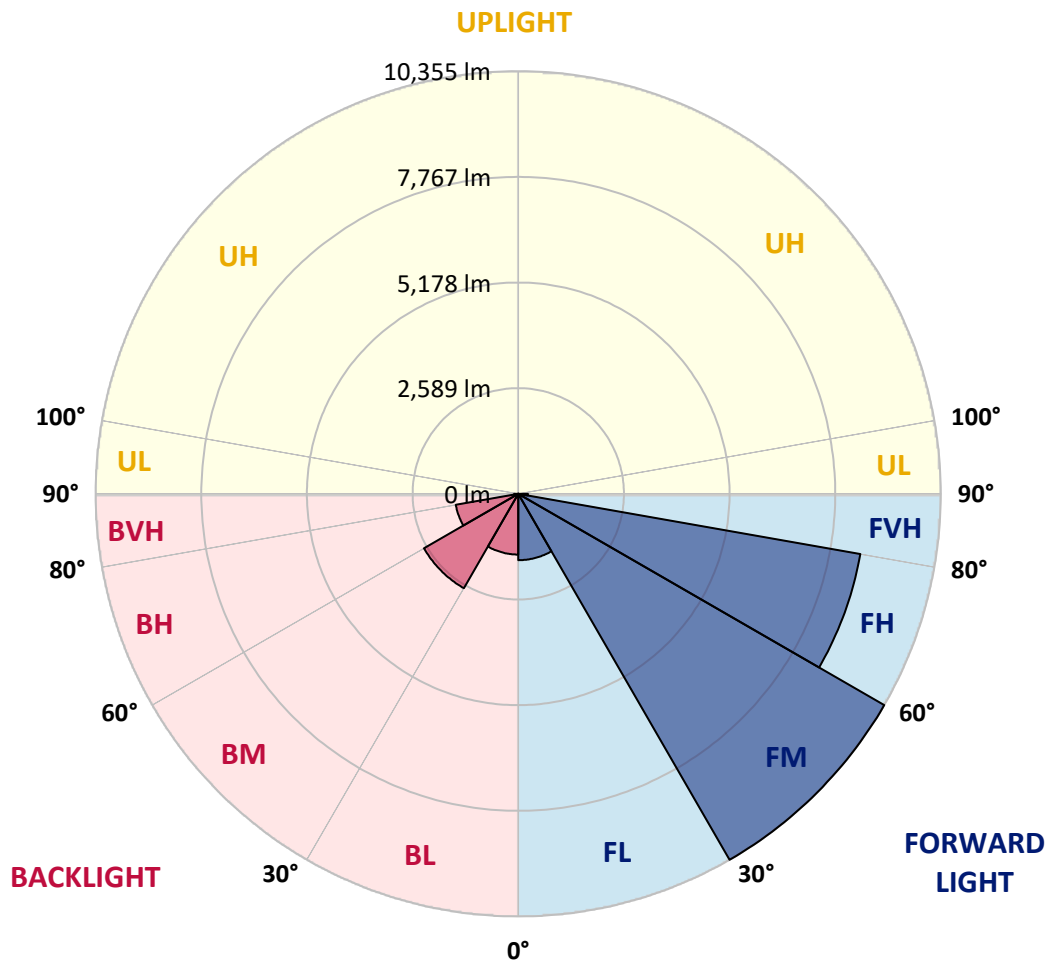


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1626.0	6.1			
FM (30°-60°)	10355.5	39.0			
FH (60°-80°)	8511.9	32.1			G4/12000
FVH (80°-90°)	235.0	0.9			G3/500
BL (0°-30°)	1489.2	5.6	B3/2500		
BM (30°-60°)	2668.4	10.1	B3/5000		
BH (60°-80°)	1553.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	101.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6
2.5°	3413.0	3411.7	3429.4	3434.9	3467.5	3490.5	3534.1	3580.3	3640.1	3646.8	3683.5
5°	3216.0	3216.0	3236.4	3258.2	3300.3	3346.5	3413.0	3493.3	3596.6	3612.9	3703.9
7.5°	3048.9	3059.7	3077.4	3119.5	3168.5	3235.0	3337.0	3451.2	3587.1	3612.9	3759.7
10°	2914.3	2926.5	2948.2	2982.2	3055.6	3148.1	3281.2	3428.0	3610.2	3650.9	3841.3
12.5°	2872.2	2884.4	2896.5	2922.4	2990.3	3099.1	3258.2	3438.9	3665.9	3706.7	3952.7
15°	2969.9	2984.9	2975.4	2968.6	3004.0	3103.2	3269.0	3478.3	3735.2	3793.7	4090.0
17.5°	3195.6	3201.1	3179.3	3115.4	3110.0	3162.9	3320.7	3532.7	3822.2	3886.1	4228.6
20°	3559.9	3550.4	3505.5	3379.1	3307.1	3296.2	3409.0	3614.3	3911.9	3979.9	4378.2
22.5°	4054.7	4043.8	3954.0	3754.3	3593.9	3487.9	3536.8	3720.2	4012.6	4088.6	4523.6
25°	4671.7	4656.8	4525.0	4253.1	4004.4	3742.1	3710.8	3860.3	4136.2	4206.9	4675.8
27.5°	5392.2	5379.9	5237.2	4878.4	4519.5	4090.0	3926.9	4024.8	4265.3	4345.6	4847.1
30°	6166.9	6202.3	5949.5	5563.4	5109.4	4544.0	4217.8	4227.3	4432.5	4504.6	5055.1
32.5°	7077.6	7138.8	6834.4	6345.1	5725.2	5037.4	4584.8	4510.0	4675.8	4735.6	5317.4
35°	7980.2	8049.5	7796.7	7255.7	6542.1	5619.2	4968.1	4834.9	4999.3	5064.6	5665.4
37.5°	8760.4	8852.8	8722.3	8252.1	7416.1	6320.6	5468.3	5216.8	5397.6	5479.1	6133.0
40°	9376.2	9517.5	9508.0	9214.4	8446.4	7171.4	6103.1	5688.4	5892.4	5980.8	6699.8
42.5°	9876.4	9998.7	10104.8	10089.8	9521.6	8137.9	6849.3	6301.5	6456.5	6558.5	7337.3
45°	10221.6	10352.1	10580.5	10826.5	10556.0	9172.3	7704.3	7028.7	7170.1	7323.7	8097.1
47.5°	10530.1	10678.3	10974.7	11364.8	11434.1	10210.7	8640.8	7875.6	8004.6	8163.7	8859.7
50°	10557.4	10685.1	11144.5	11697.8	12058.0	11208.5	9646.7	8825.7	8946.6	9116.6	9676.5
52.5°	9900.8	10102.0	10903.9	11688.3	12344.8	12043.0	10645.8	9813.9	9949.8	10153.6	10522.0
55°	7685.2	7980.2	10198.5	11324.0	12242.8	12582.7	11595.8	10864.6	11038.5	11251.9	11372.9
57.5°	6619.6	6748.7	8095.8	10660.6	11778.0	12722.6	12397.8	11926.1	12206.1	12439.9	12272.7
60°	5949.5	6056.8	6853.4	9629.0	11166.3	12501.1	13017.6	12915.6	13399.5	13678.2	13193.0
62.5°	5231.8	5333.7	6058.2	8040.0	10383.4	12132.7	13409.0	13829.1	14622.9	14927.4	14060.1
65°	4519.5	4606.6	5301.1	6755.5	9388.4	11764.3	13611.6	14618.9	15755.2	16070.5	14780.6
67.5°	3725.8	3797.7	4454.2	5699.4	8178.7	11260.1	13712.1	15240.0	16740.6	17011.1	15136.7
70°	2688.6	2744.3	3422.6	4507.3	6660.3	10392.9	13671.4	15680.3	17251.7	17467.8	14867.5
72.5°	1270.9	1321.2	2117.8	2926.5	4704.3	8704.7	12846.3	15331.0	16732.5	16625.1	13220.1
75°	678.2	721.8	1216.6	1605.3	2484.7	5967.1	10512.5	13206.5	14050.6	13528.7	9770.3
77.5°	459.4	493.4	753.1	963.7	1135.0	2832.7	6756.9	9143.7	8797.2	7935.3	4893.3
80°	364.3	399.6	617.2	652.4	549.1	1023.6	2791.9	4232.7	3040.7	2431.7	1391.8
82.5°	280.0	319.4	519.3	473.0	299.0	420.0	812.8	1338.9	778.9	592.7	337.1
85°	171.3	213.4	407.7	301.8	168.5	191.7	275.9	372.5	237.9	198.4	121.0
87.5°	87.0	122.3	206.6	110.1	76.2	44.9	73.4	73.4	62.5	54.3	31.3
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°	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6
2.5°	3716.2	3743.4	3789.6	3833.1	3867.1	3899.7	3932.3	3950.0	3955.5	3977.2	3989.4
5°	3759.7	3810.0	3899.7	3984.0	4037.0	4069.7	4092.7	4106.4	4109.0	4115.8	4126.8
7.5°	3839.9	3920.1	4045.2	4129.4	4168.9	4166.1	4156.6	4122.7	4109.0	4096.8	4099.5
10°	3952.7	4058.7	4212.3	4270.8	4246.4	4181.1	4096.8	3997.6	3951.4	3906.5	3893.0
12.5°	4092.7	4227.3	4378.2	4375.4	4254.5	4087.3	3891.5	3739.3	3642.8	3573.5	3557.2
15°	4262.7	4417.5	4533.2	4440.7	4175.6	3875.2	3588.4	3390.0	3303.0	3226.9	3218.7
17.5°	4437.9	4603.8	4656.8	4420.3	3977.2	3561.3	3236.4	3080.1	2994.4	2953.6	2965.9
20°	4609.2	4773.7	4730.2	4303.4	3675.4	3205.2	2915.6	2830.0	2812.3	2821.8	2817.7
22.5°	4790.0	4936.8	4745.1	4077.8	3290.8	2840.9	2681.8	2684.6	2723.9	2752.5	2759.3
25°	4974.8	5074.1	4705.8	3751.5	2877.6	2573.1	2533.7	2577.2	2654.6	2710.4	2725.3
27.5°	5153.0	5196.4	4620.1	3347.9	2522.8	2381.4	2388.2	2477.9	2594.8	2672.3	2691.3
30°	5354.1	5305.2	4455.7	2893.9	2276.7	2217.0	2274.1	2378.7	2495.6	2565.0	2581.3
32.5°	5581.1	5399.0	4194.7	2473.8	2102.8	2085.1	2178.8	2246.9	2298.5	2318.9	2329.7
35°	5863.8	5530.8	3860.3	2178.8	1946.5	1988.6	2078.3	2044.4	2024.0	2013.1	2024.0
37.5°	6230.9	5708.8	3468.8	1987.3	1820.1	1919.3	1956.0	1849.9	1769.8	1730.3	1739.8
40°	6672.5	5969.9	3092.3	1839.1	1739.8	1859.5	1795.6	1667.8	1565.9	1510.1	1514.2
42.5°	7163.3	6243.1	2775.6	1727.6	1695.0	1810.6	1677.3	1525.1	1360.6	1343.0	1360.6
45°	7678.5	6524.4	2559.5	1641.9	1673.2	1768.4	1609.4	1363.4	1246.4	1318.5	1356.6
47.5°	8193.6	6782.7	2428.9	1578.1	1662.3	1720.8	1549.6	1273.7	1190.7	1295.4	1344.3
50°	8767.2	7013.8	2370.5	1531.9	1650.1	1701.8	1459.8	1250.5	1132.2	1201.6	1253.3
52.5°	9336.7	7193.1	2327.1	1485.6	1632.5	1686.8	1416.3	1223.3	1061.6	1065.7	1094.2
55°	9904.9	7310.1	2279.5	1424.5	1593.1	1654.2	1412.2	1193.4	1008.6	989.5	1003.2
57.5°	10511.2	7376.7	2221.1	1356.6	1525.1	1571.3	1408.1	1170.3	992.3	961.0	965.0
60°	11128.2	7474.6	2144.9	1273.7	1434.0	1472.1	1398.7	1162.1	982.8	929.8	933.8
62.5°	11681.4	7508.5	2053.8	1194.7	1317.1	1374.2	1378.3	1155.4	956.9	865.8	865.8
65°	12044.4	7361.8	1894.8	1105.1	1190.7	1273.7	1338.9	1132.2	910.7	819.6	819.6
67.5°	12029.4	6943.0	1646.0	989.5	1068.4	1162.1	1281.8	1092.9	855.0	762.5	766.6
70°	11469.4	6116.7	1330.8	855.0	933.8	1042.5	1208.4	1034.4	788.3	700.0	708.2
72.5°	9836.9	4787.3	966.5	697.3	777.5	918.8	1113.3	963.7	720.4	644.3	640.2
75°	7027.4	3029.8	655.2	535.6	604.9	778.9	995.0	880.8	657.8	647.0	610.3
77.5°	3589.8	1447.6	433.6	391.4	421.4	614.4	836.0	787.0	667.4	534.2	475.7
80°	1167.6	534.2	273.2	266.4	280.0	409.2	647.0	645.6	505.6	363.0	320.8
82.5°	372.5	229.7	178.0	171.3	164.5	256.9	451.3	511.1	341.2	229.7	228.4
85°	148.1	137.2	104.7	96.6	69.3	121.0	236.5	339.8	254.2	165.8	169.9
87.5°	54.3	54.3	28.5	20.4	15.0	40.8	63.9	102.0	145.4	85.6	84.3
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)