

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: P884969

Luminaire Tested: **NAV-SB6A-740-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-740-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29374 lumens
Efficiency: N/A
Efficacy: 171.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

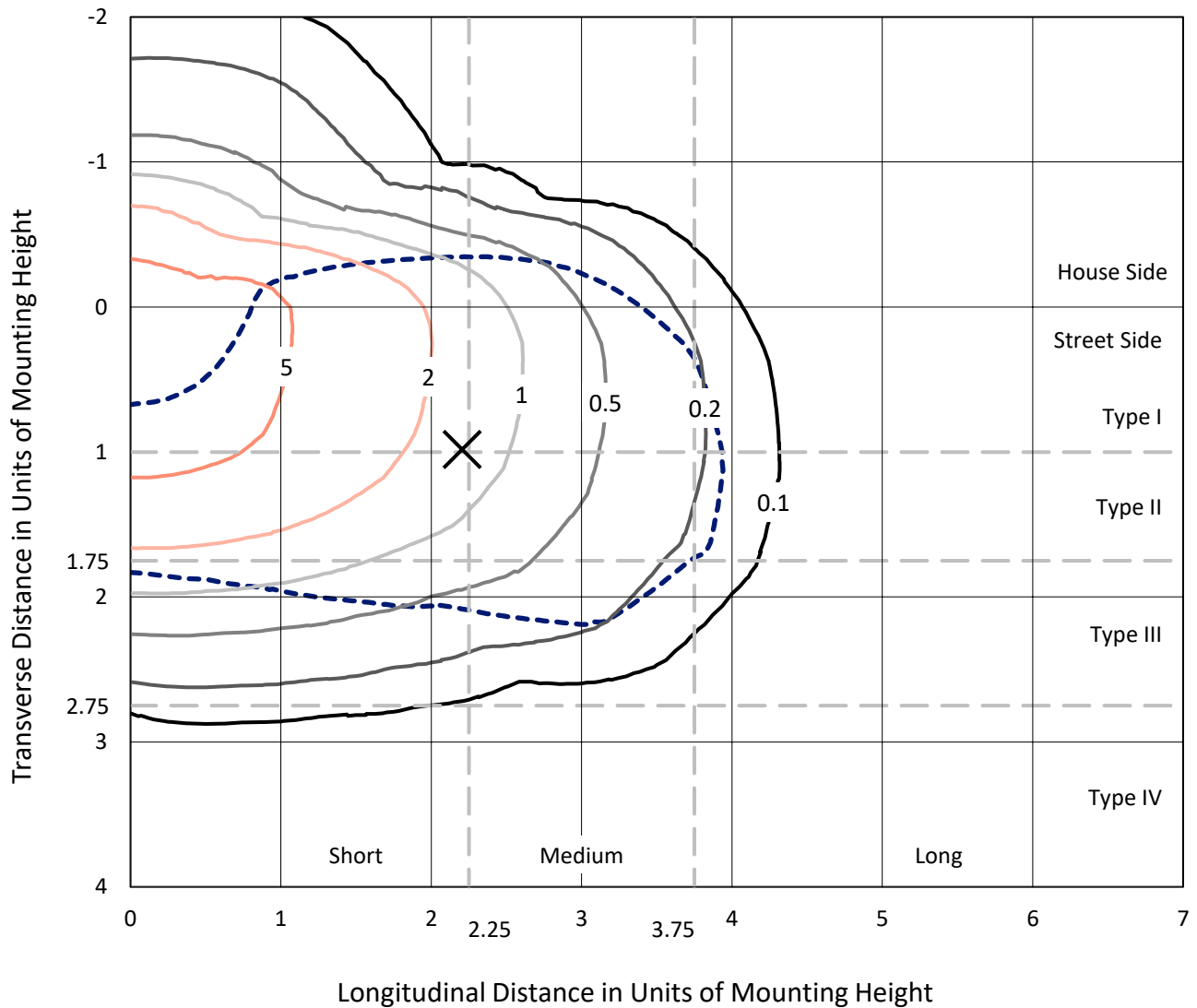
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

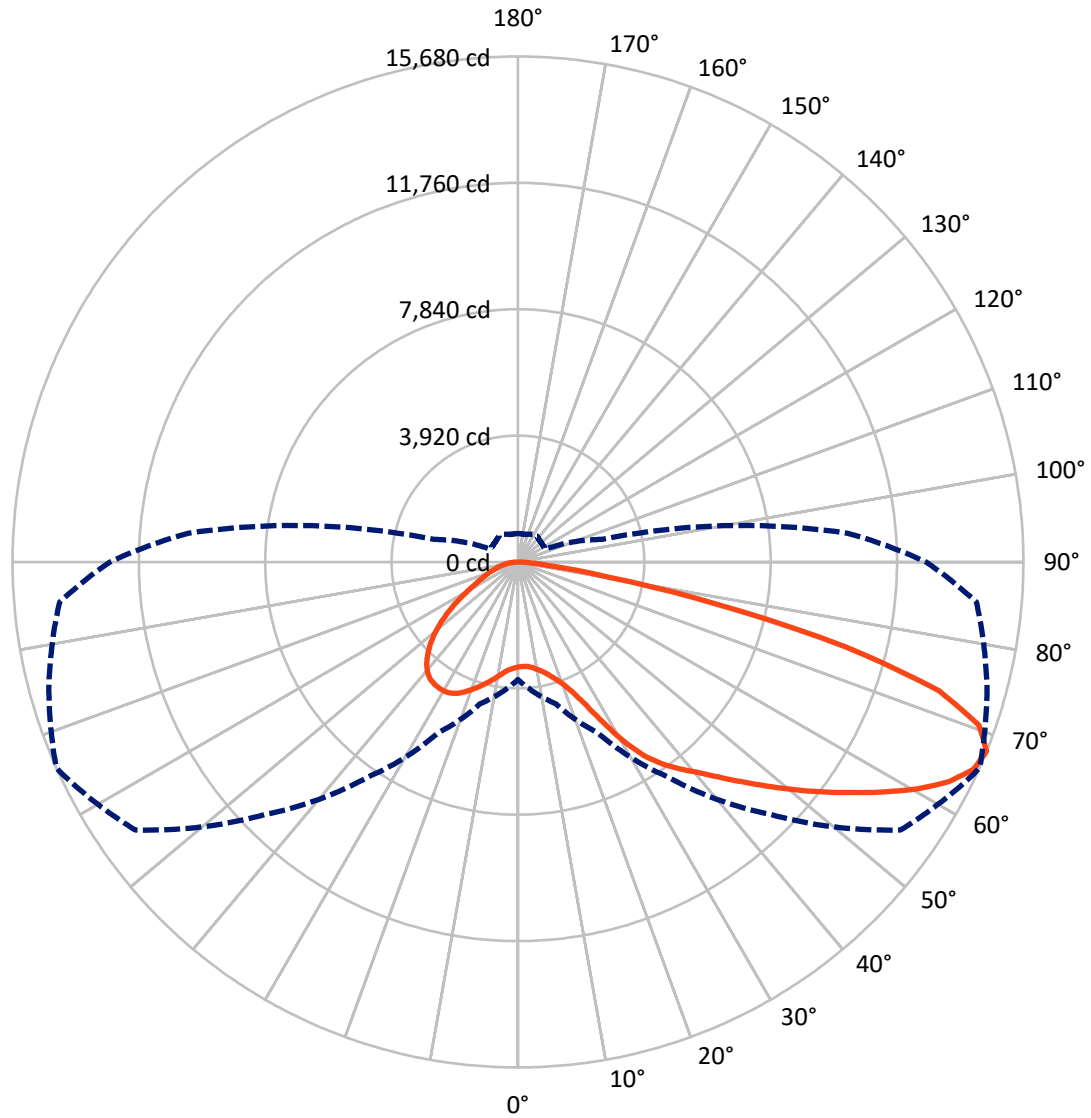
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7303.8	0.0	7303.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	22070.2	0.0	22070.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	29374.0	0.0	29374.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.0	1.1
10°-20°	1067.2	3.6
20°-30°	2057.0	7.0
30°-40°	3606.6	12.3
40°-50°	5361.9	18.3
50°-60°	6796.7	23.1
60°-70°	6650.4	22.6
70°-80°	3172.3	10.8
80°-90°	339.0	1.2
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°	29374.0	100.0
0°-180°	29374.0	100.0

Coefficient of Utilization



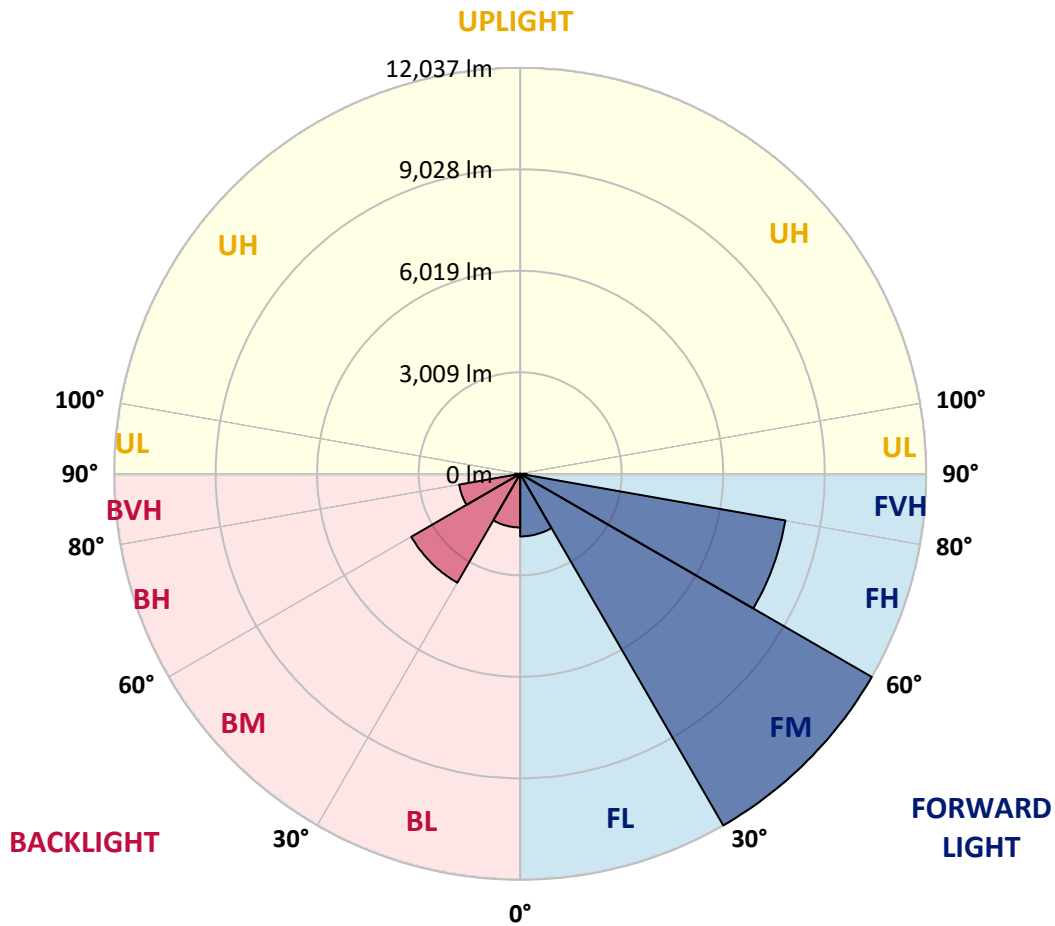
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1856.1	6.3			
FM (30°-60°)	12037.2	41.0			
FH (60°-80°)	7984.7	27.2			G4/12000
FVH (80°-90°)	192.2	0.7			G2/225
BL (0°-30°)	1591.0	5.4	B3/2500		
BM (30°-60°)	3727.9	12.7	B3/5000		
BH (60°-80°)	1838.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	146.8	0.5			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3258.0	3258.0	3258.0	3258.0	3258.0	3258.0	3258.0	3258.0	3258.0	3258.0	3258.0
2.5°	3224.0	3242.5	3237.9	3230.2	3228.6	3231.7	3236.4	3241.0	3239.4	3247.2	3259.5
5°	3214.8	3233.3	3231.7	3231.7	3237.9	3250.2	3258.0	3265.7	3258.0	3267.2	3284.2
7.5°	3220.9	3234.8	3241.0	3247.2	3262.6	3285.7	3304.3	3321.2	3312.0	3322.8	3344.4
10°	3299.6	3310.4	3316.6	3316.6	3327.4	3353.7	3372.2	3403.0	3395.3	3412.3	3440.1
12.5°	3443.2	3454.0	3454.0	3447.8	3455.5	3472.5	3478.7	3512.6	3498.7	3526.5	3554.3
15°	3619.1	3640.7	3623.7	3612.9	3616.0	3633.0	3631.5	3657.7	3643.8	3666.9	3691.6
17.5°	3813.6	3841.3	3813.6	3812.0	3805.8	3824.4	3825.9	3849.1	3824.4	3841.3	3858.3
20°	4043.5	4082.1	4059.0	4066.7	4052.8	4060.5	4068.2	4102.2	4063.6	4075.9	4071.3
22.5°	4367.6	4413.9	4389.2	4418.5	4409.3	4403.1	4401.6	4461.8	4401.6	4406.2	4361.4
25°	4839.9	4895.4	4852.2	4892.3	4892.3	4912.4	4935.6	5012.7	4912.4	4883.1	4767.3
27.5°	5537.5	5593.0	5508.1	5532.8	5525.1	5574.5	5549.8	5741.2	5633.1	5585.3	5352.3
30°	6377.0	6475.8	6315.3	6309.1	6301.4	6380.1	6415.6	6542.2	6432.6	6384.7	6103.9
32.5°	7284.5	7387.9	7196.5	7141.0	7111.7	7159.5	7130.2	7232.0	7156.4	7082.3	6735.1
35°	8244.5	8346.3	8164.2	8056.2	7938.9	7838.6	7733.6	7759.9	7688.9	7576.2	7216.6
37.5°	9151.9	9338.7	9145.8	9030.0	8813.9	8617.9	8324.7	8202.8	8136.4	8033.0	7670.3
40°	10076.4	10182.9	10036.3	9937.5	9702.9	9395.8	8926.6	8668.9	8579.4	8479.0	8171.9
42.5°	10757.0	10858.9	10780.1	10712.2	10528.6	10172.1	9565.5	9243.0	9113.4	9000.7	8739.9
45°	11297.2	11372.8	11323.4	11348.1	11269.4	10923.7	10227.6	9858.8	9724.5	9587.2	9381.9
47.5°	11514.8	11595.0	11673.7	11820.3	11954.6	11700.0	10939.1	10525.5	10383.5	10243.1	10040.9
50°	11490.1	11571.9	11800.3	12112.0	12528.7	12443.9	11689.2	11235.4	11104.2	10943.7	10757.0
52.5°	11292.5	11385.1	11678.4	12196.9	12860.5	13001.0	12453.1	11968.5	11845.0	11653.7	11466.9
55°	10774.0	10829.5	11269.4	12004.0	12939.3	13389.9	13201.6	12749.4	12626.0	12359.0	12155.2
57.5°	9812.5	9892.7	10533.2	11483.9	12741.7	13653.8	13859.1	13570.5	13451.6	13067.4	12854.4
60°	8557.8	8685.8	9418.9	10610.4	12238.6	13652.3	14456.4	14377.6	14278.9	13764.9	13542.7
62.5°	7137.9	7286.1	7991.4	9375.7	11358.9	13264.9	14829.8	15053.6	15002.7	14408.5	14124.5
65°	5481.9	5583.8	6286.0	7778.4	9990.0	12433.0	14873.0	15515.1	15524.3	14897.7	14428.6
67.5°	3650.0	3943.2	4552.8	5836.9	8156.5	11073.4	14493.4	15590.7	15680.2	15066.0	14275.8
70°	1781.0	2166.8	2764.1	3793.5	5836.9	8988.3	13501.0	14970.3	15169.4	14575.2	13365.2
72.5°	739.3	864.3	1189.9	1872.1	3350.6	6065.3	11507.1	13288.1	13656.9	12914.6	11237.0
75°	498.5	540.2	680.6	959.9	1526.4	2991.0	8298.5	9908.2	10502.3	9753.8	7972.8
77.5°	384.3	410.5	495.4	671.3	907.5	1131.3	4441.7	5971.1	6278.3	5812.2	4148.5
80°	302.5	322.6	370.4	489.2	643.6	605.0	1514.0	2705.5	2882.9	2418.4	1333.4
82.5°	262.4	270.1	265.5	331.8	427.5	353.4	497.0	998.5	1101.9	799.4	435.2
85°	189.8	211.4	220.7	205.3	226.9	179.0	203.7	353.4	388.9	347.2	245.4
87.5°	77.2	114.2	140.4	132.7	83.3	50.9	63.3	103.4	118.8	129.6	80.3
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°	3258.0	3258.0	3258.0	3258.0	3258.0	3258.0	3258.0	3258.0	3258.0	3258.0	3258.0
2.5°	3261.1	3271.9	3279.6	3288.8	3295.0	3304.3	3322.8	3333.6	3335.1	3342.8	3341.3
5°	3290.4	3305.8	3322.8	3347.5	3375.3	3398.4	3433.9	3458.6	3467.9	3475.6	3474.0
7.5°	3353.7	3375.3	3406.1	3449.3	3489.5	3520.3	3563.5	3592.9	3622.2	3633.0	3634.5
10°	3447.8	3478.7	3523.4	3582.1	3625.3	3665.4	3710.2	3734.9	3764.2	3776.5	3782.7
12.5°	3565.1	3597.5	3656.1	3737.9	3778.1	3805.8	3821.3	3815.1	3821.3	3832.1	3835.2
15°	3699.4	3734.9	3801.2	3889.2	3917.0	3892.3	3858.3	3827.5	3822.8	3825.9	3836.7
17.5°	3858.3	3884.6	3961.7	4035.8	4015.7	3913.9	3839.8	3790.4	3765.7	3758.0	3768.8
20°	4080.6	4080.6	4143.8	4190.1	4055.9	3883.0	3767.3	3687.0	3636.1	3614.5	3609.8
22.5°	4350.6	4325.9	4366.1	4333.7	4048.1	3796.6	3636.1	3497.2	3420.0	3389.1	3384.5
25°	4693.3	4663.9	4653.1	4452.5	3992.6	3659.2	3398.4	3230.2	3162.3	3145.3	3148.4
27.5°	5210.3	5136.2	4995.8	4517.3	3890.7	3443.2	3120.6	2964.7	2926.1	2927.7	2932.3
30°	5898.6	5750.4	5406.3	4528.1	3724.0	3137.6	2836.6	2725.5	2707.0	2714.7	2741.0
32.5°	6536.0	6395.6	5826.1	4478.7	3467.9	2838.2	2582.0	2507.9	2480.1	2489.4	2501.7
35°	7036.0	6997.4	6215.0	4409.3	3153.0	2557.3	2353.6	2290.3	2236.3	2223.9	2233.2
37.5°	7508.3	7492.9	6506.7	4312.1	2841.3	2358.2	2169.9	2086.6	2007.9	1964.7	1966.2
40°	8026.8	8011.4	6698.0	4162.4	2565.0	2185.4	2004.8	1895.2	1798.0	1719.3	1727.0
42.5°	8610.2	8519.2	6789.1	3947.8	2330.4	2038.7	1870.5	1722.4	1594.3	1521.7	1526.4
45°	9247.6	9042.4	6787.6	3674.7	2132.9	1904.5	1727.0	1517.1	1398.3	1330.3	1327.3
47.5°	9923.6	9542.4	6704.2	3372.2	1941.5	1756.3	1504.7	1344.2	1265.5	1223.9	1214.6
50°	10621.2	10010.0	6562.2	3024.9	1745.5	1588.1	1365.8	1256.3	1196.1	1157.5	1143.6
52.5°	11277.1	10434.4	6390.9	2631.4	1546.4	1424.5	1304.1	1219.2	1156.0	1112.7	1094.2
55°	11886.7	10800.2	6148.6	2228.6	1384.4	1314.9	1274.8	1203.8	1131.3	1080.3	1060.3
57.5°	12428.4	11037.9	5730.4	1850.4	1268.6	1239.3	1243.9	1177.6	1094.2	1051.0	1023.2
60°	12879.1	11212.3	5111.5	1500.1	1174.5	1165.2	1196.1	1128.2	1030.9	981.6	959.9
62.5°	13149.2	11209.2	4352.2	1228.5	1094.2	1097.3	1132.8	1066.4	967.7	921.4	907.5
65°	13126.0	10934.5	3518.8	1051.0	1017.1	1020.1	1066.4	998.5	915.2	887.4	885.9
67.5°	12661.5	10264.7	2699.3	935.3	932.2	946.1	1000.1	952.2	882.8	879.7	884.3
70°	11403.6	8874.1	1944.6	842.7	844.2	864.3	935.3	922.9	865.8	872.0	870.4
72.5°	9144.2	6765.9	1305.7	745.4	747.0	779.4	873.5	899.8	848.8	930.6	943.0
75°	6090.0	4219.5	839.6	642.0	643.6	685.2	819.5	855.0	802.5	927.5	935.3
77.5°	2926.1	1896.7	608.1	540.2	540.2	578.7	708.4	765.5	683.7	720.7	660.5
80°	1010.9	713.0	478.4	435.2	426.0	452.2	597.3	663.6	589.6	543.3	509.3
82.5°	398.2	370.4	384.3	338.0	307.1	324.1	464.5	547.9	433.7	392.0	390.5
85°	228.4	240.8	271.6	223.8	177.5	199.1	341.1	393.5	327.2	288.6	294.8
87.5°	61.7	84.9	125.0	115.7	80.3	84.9	162.0	217.6	188.3	145.1	149.7
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)