

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: P969227

Luminaire Tested: **NAV-SB5D-722-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969227  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5D-722-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

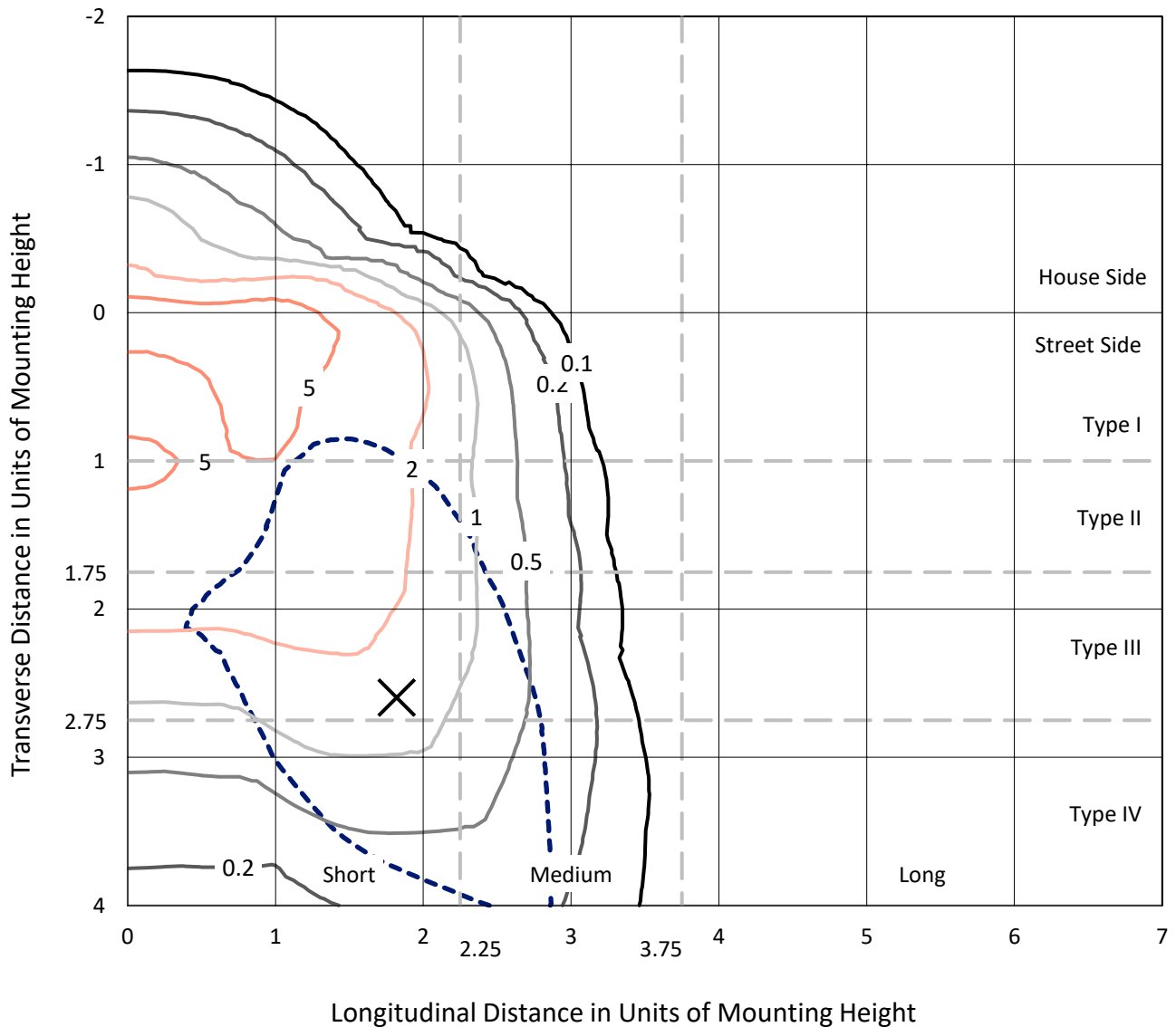
Lumens per Lamp: N/A  
Luminaire Lumens: 32954.8 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

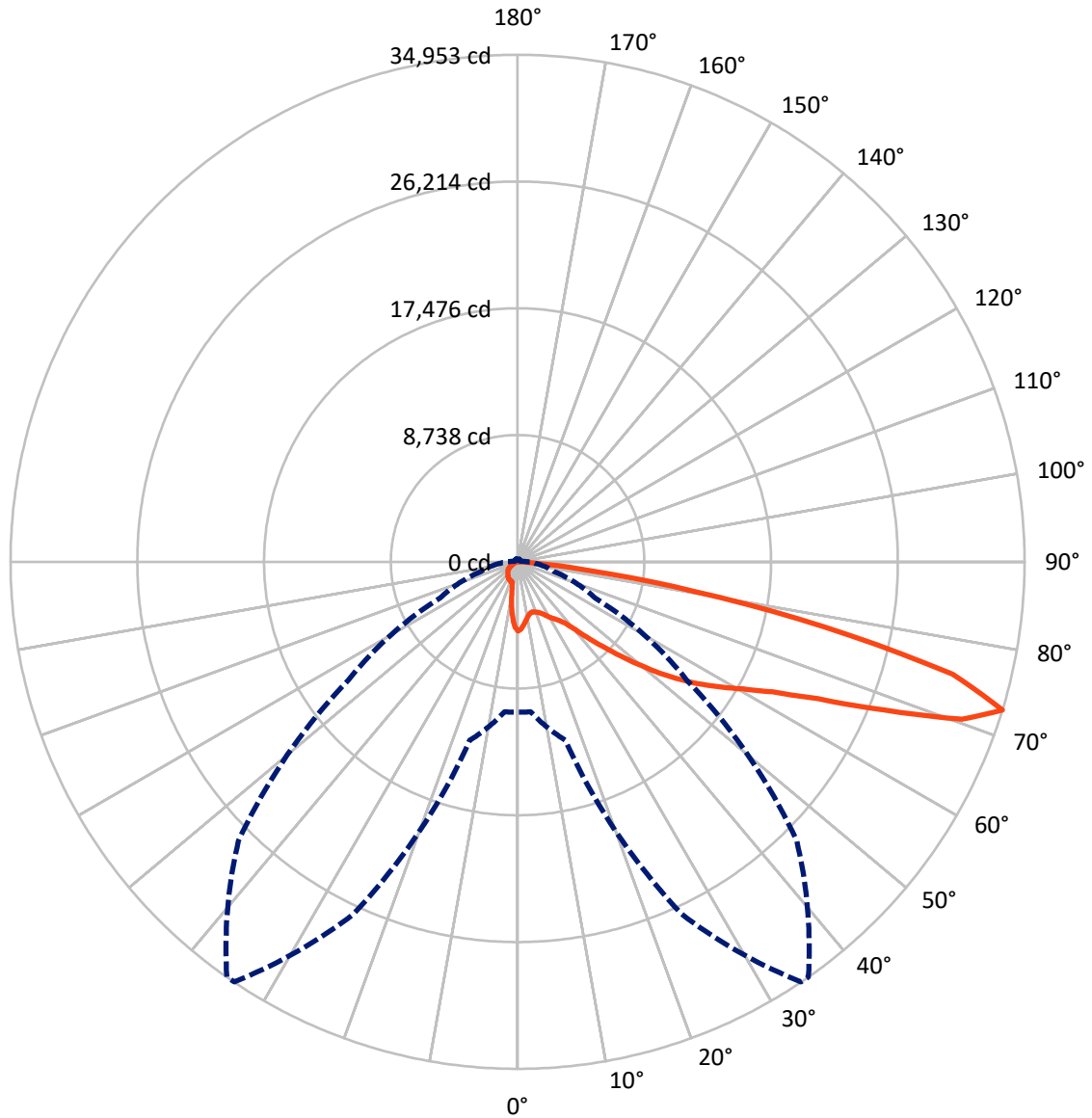
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3708.9	0.0	3708.9
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	29245.9	0.0	29245.9
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	32954.8	0.0	32954.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	392.5	1.2
10°-20°	918.2	2.8
20°-30°	1491.5	4.5
30°-40°	2488.6	7.6
40°-50°	4708.5	14.3
50°-60°	7481.8	22.7
60°-70°	9255.5	28.1
70°-80°	5753.3	17.5
80°-90°	465.0	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°	32954.8	100.0
0°-180°	32954.8	100.0

**Coefficient of Utilization**

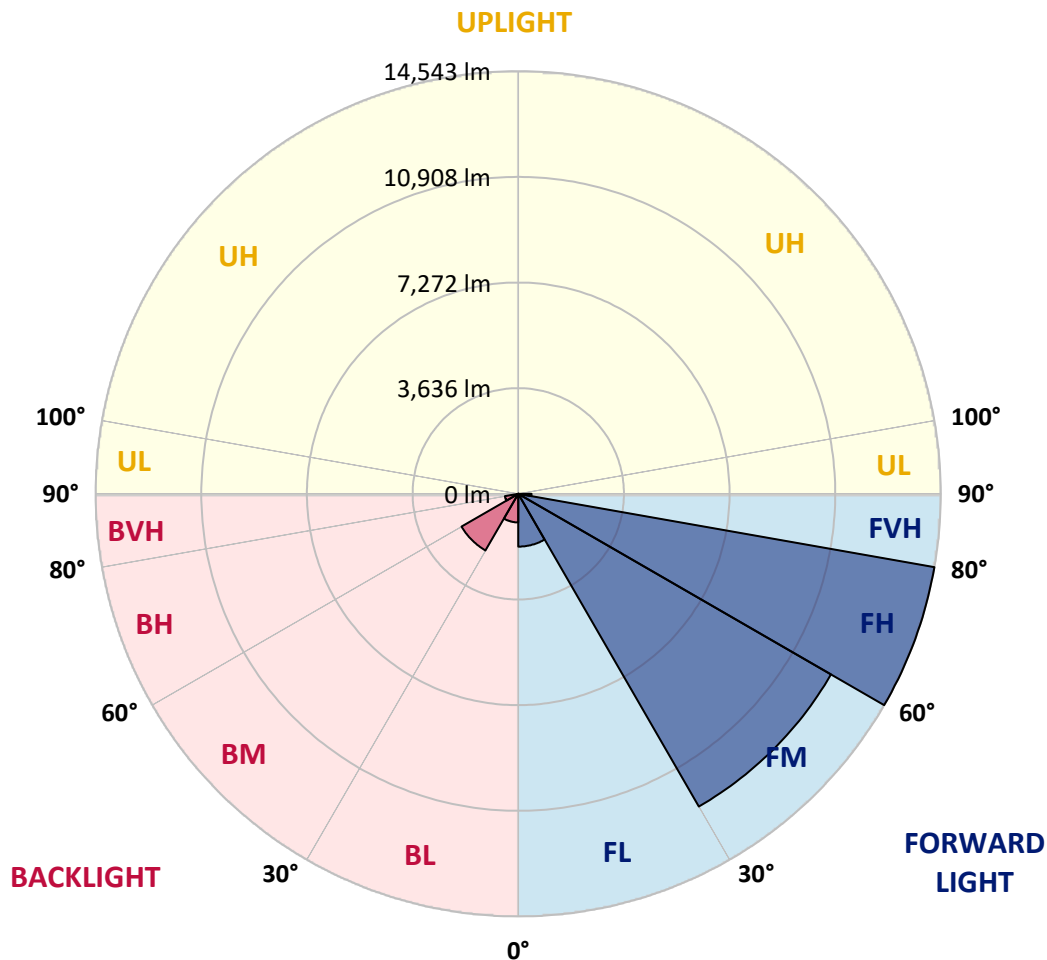


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1816.6	5.5			
FM (30°-60°)	12427.2	37.7			
FH (60°-80°)	14543.3	44.1			G5
FVH (80°-90°)	458.6	1.4			G3/500
BL (0°-30°)	985.5	3.0	B2/1000		
BM (30°-60°)	2251.6	6.8	B2/2500		
BH (60°-80°)	465.4	1.4	B1/500		G1/500
BVH (80°-90°)	6.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4776.3	4776.3	4776.3	4776.3	4776.3	4776.3	4776.3	4776.3	4776.3	4776.3	4776.3
2.5°	4563.7	4602.4	4609.6	4621.7	4621.7	4636.2	4660.4	4694.2	4749.6	4778.7	4798.0
5°	4206.4	4235.4	4271.6	4300.6	4356.0	4363.3	4457.5	4549.3	4677.3	4773.8	4841.5
7.5°	3846.6	3880.4	3928.7	3998.7	4071.2	4092.9	4235.4	4389.9	4592.7	4773.8	4887.3
10°	3593.0	3595.5	3639.0	3709.0	3824.9	3851.4	4025.3	4245.0	4498.5	4744.8	4930.8
12.5°	3450.6	3467.5	3486.8	3539.9	3651.0	3667.9	3853.8	4112.2	4404.4	4727.9	4981.5
15°	3450.6	3462.7	3474.7	3501.3	3590.7	3605.1	3769.3	4027.7	4356.0	4735.2	5063.6
17.5°	3486.8	3506.1	3496.5	3527.8	3622.0	3631.7	3776.6	4003.5	4353.7	4781.1	5189.2
20°	3573.8	3588.2	3568.9	3588.2	3682.4	3701.7	3851.4	4049.5	4394.7	4860.8	5346.1
22.5°	3711.4	3718.6	3672.8	3687.2	3783.8	3808.0	3981.8	4179.8	4493.7	4988.8	5556.2
25°	3885.3	3899.7	3829.7	3846.6	3938.4	3967.4	4167.8	4375.4	4650.7	5165.0	5824.3
27.5°	4085.6	4092.9	4032.6	4030.1	4148.5	4189.5	4392.3	4616.9	4860.8	5387.2	6162.3
30°	4315.0	4336.8	4278.9	4269.1	4418.9	4452.7	4653.1	4913.8	5169.9	5720.4	6642.8
32.5°	4496.2	4513.1	4479.2	4503.4	4655.5	4682.1	4969.4	5334.0	5655.2	6193.7	7297.2
35°	4756.9	4766.6	4689.3	4732.8	4906.7	4974.2	5401.6	5923.3	6266.1	6787.7	8152.0
37.5°	5701.0	5701.0	5372.6	5157.8	5324.4	5384.7	5993.3	6664.6	7019.5	7584.5	9228.9
40°	7007.4	6985.7	6505.2	6065.7	6043.9	6162.3	6835.9	7599.0	7992.6	8540.7	10441.1
42.5°	8400.7	8366.9	7712.5	7277.9	7205.4	7246.4	7809.1	8750.8	9151.7	9707.1	11745.1
45°	9637.0	9627.3	9028.5	8444.2	8313.8	8444.2	9023.7	10098.2	10385.6	10970.0	13046.5
47.5°	10672.9	10672.9	10235.9	9854.3	9786.7	9864.0	10668.1	11593.0	11566.3	12314.9	14314.2
50°	11865.8	11856.1	11440.7	11276.6	11346.6	11455.3	12561.2	13167.3	12788.2	13635.8	15446.7
52.5°	12701.3	12759.2	12616.7	12590.2	12947.6	13135.9	14483.2	14707.8	13882.1	14888.9	16294.3
55°	13362.9	13430.5	13594.7	13780.6	14468.8	14715.1	16345.1	16168.8	14797.2	15975.5	16782.1
57.5°	14299.8	14203.2	14456.7	14823.8	15936.9	16234.0	18148.8	17547.5	15533.7	16856.9	16835.2
60°	15437.1	15451.6	15495.0	15958.6	17402.7	17784.2	19926.0	18851.5	16006.9	17397.8	16246.0
62.5°	16803.8	16825.6	16914.9	17627.2	19370.7	19730.4	21819.1	19918.7	16224.3	17245.7	14724.7
65°	16709.7	16801.4	17798.6	20235.0	22362.4	22717.4	24028.6	20667.3	15895.9	15854.8	11988.9
67.5°	15222.2	15371.9	17040.4	23350.0	26873.0	27269.1	26699.2	20814.6	14478.4	12329.4	7821.2
70°	13271.1	13324.3	15330.8	26151.0	32096.0	32496.9	29089.7	19194.4	10986.9	6877.0	3503.8
72.5°	10363.9	10375.9	12730.2	26800.6	34930.9	34952.6	27213.5	14249.0	5908.7	2641.6	1217.0
75°	7403.5	7331.0	8526.3	21734.6	30731.8	30978.1	20401.7	6683.8	2257.8	1248.3	606.1
77.5°	3969.7	4049.5	4824.6	12889.6	21229.9	21650.0	11131.7	1926.9	1149.4	849.9	400.9
80°	1226.6	1294.3	1977.6	5901.5	12025.1	12278.7	4126.6	857.2	801.7	606.1	263.2
82.5°	386.3	400.9	922.4	2479.9	4991.1	5107.1	1195.3	485.3	548.2	400.9	154.6
85°	111.1	113.5	410.5	924.9	1233.9	1258.1	335.7	188.4	314.0	248.7	79.6
87.5°	12.1	38.6	154.6	154.6	108.6	106.3	36.2	41.0	89.4	31.4	14.5
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°	4776.3	4776.3	4776.3	4776.3	4776.3	4776.3	4776.3	4776.3	4776.3	4776.3	4776.3
2.5°	4785.9	4788.3	4756.9	4703.8	4645.8	4597.5	4537.2	4488.9	4455.1	4445.4	4462.3
5°	4819.8	4802.8	4713.5	4551.7	4358.5	4191.9	4006.0	3858.7	3762.1	3721.1	3735.5
7.5°	4870.4	4822.1	4626.5	4307.8	3938.4	3609.9	3276.7	3018.3	2854.1	2772.0	2784.1
10°	4913.8	4817.3	4481.7	3955.3	3390.2	2892.8	2443.7	2132.2	1958.3	1876.3	1878.6
12.5°	4955.0	4814.9	4293.3	3537.5	2772.0	2163.6	1745.8	1591.3	1543.0	1526.1	1521.2
15°	5032.2	4822.1	4056.6	3059.4	2156.3	1634.8	1482.7	1480.2	1489.8	1485.0	1482.7
17.5°	5138.4	4829.4	3788.6	2552.4	1663.7	1441.6	1434.3	1456.0	1470.6	1463.3	1460.9
20°	5276.1	4858.4	3503.8	2050.1	1429.5	1393.3	1410.2	1429.5	1441.6	1429.5	1427.1
22.5°	5469.3	4909.0	3192.3	1646.9	1354.6	1364.3	1378.8	1400.6	1412.6	1395.6	1393.3
25°	5705.9	4988.8	2885.6	1431.9	1318.5	1330.4	1352.2	1376.4	1390.8	1373.9	1371.6
27.5°	6012.5	5116.7	2603.0	1383.6	1282.2	1289.4	1320.8	1357.1	1376.4	1354.6	1354.6
30°	6456.9	5326.8	2359.1	1405.4	1260.4	1243.5	1287.0	1337.7	1359.5	1340.2	1337.7
32.5°	7046.1	5623.8	2209.5	1439.2	1250.8	1190.4	1231.5	1296.7	1332.9	1320.8	1320.8
35°	7818.8	6075.4	2151.5	1477.7	1243.5	1134.9	1163.9	1233.9	1296.7	1308.7	1308.7
37.5°	8755.7	6703.2	2168.4	1494.7	1221.8	1089.1	1103.5	1163.9	1246.0	1284.6	1294.3
40°	9820.5	7434.8	2264.9	1477.7	1197.7	1050.4	1052.8	1098.7	1171.2	1229.1	1248.3
42.5°	10919.2	8289.6	2443.7	1415.0	1176.0	1016.6	1009.3	1040.7	1089.1	1130.1	1147.0
45°	11964.8	9168.5	2619.9	1328.1	1149.4	982.8	965.9	978.0	987.6	1004.5	1014.1
47.5°	12877.5	9786.7	2569.3	1248.3	1113.1	944.1	915.1	910.3	881.4	878.9	876.6
50°	13507.8	9922.0	2281.9	1168.7	1060.1	900.7	854.8	825.8	775.1	751.0	753.4
52.5°	13708.1	9388.3	1864.2	1089.1	973.1	842.8	777.6	731.6	668.9	647.2	644.7
55°	13442.6	8342.8	1489.8	992.4	852.4	765.5	693.0	632.6	581.9	555.3	555.3
57.5°	12793.0	7012.2	1178.3	878.9	724.4	678.6	606.1	545.7	502.2	475.7	470.9
60°	11716.1	5568.3	932.0	743.7	618.2	584.4	509.5	470.9	432.2	400.9	393.6
62.5°	10081.3	3974.5	731.6	589.2	516.7	478.1	434.6	405.7	359.8	316.3	309.0
65°	7867.1	2431.6	565.1	432.2	415.3	396.0	369.4	342.9	287.3	243.8	236.7
67.5°	4962.2	1151.8	403.2	326.0	328.4	318.8	306.7	285.0	243.8	205.2	200.4
70°	2185.3	557.8	265.6	248.7	243.8	243.8	253.6	246.3	207.7	171.5	164.2
72.5°	743.7	299.4	198.0	188.4	176.3	173.8	212.5	205.2	166.6	132.8	125.6
75°	388.8	200.4	144.8	135.2	106.3	128.0	169.0	159.4	118.3	86.9	79.6
77.5°	253.6	142.5	99.0	86.9	60.4	84.6	125.6	111.1	70.0	43.5	38.6
80°	159.4	94.2	57.9	41.0	29.0	45.9	67.6	48.3	26.5	9.6	7.3
82.5°	84.6	48.3	21.7	14.5	12.1	14.5	16.9	12.1	4.8	0.0	0.0
85°	33.8	16.9	7.3	4.8	2.5	0.0	4.8	2.5	0.0	0.0	0.0
87.5°	12.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)