

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: P962955

Luminaire Tested: **NAV-SB2D-730-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2D-730-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15231.5 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

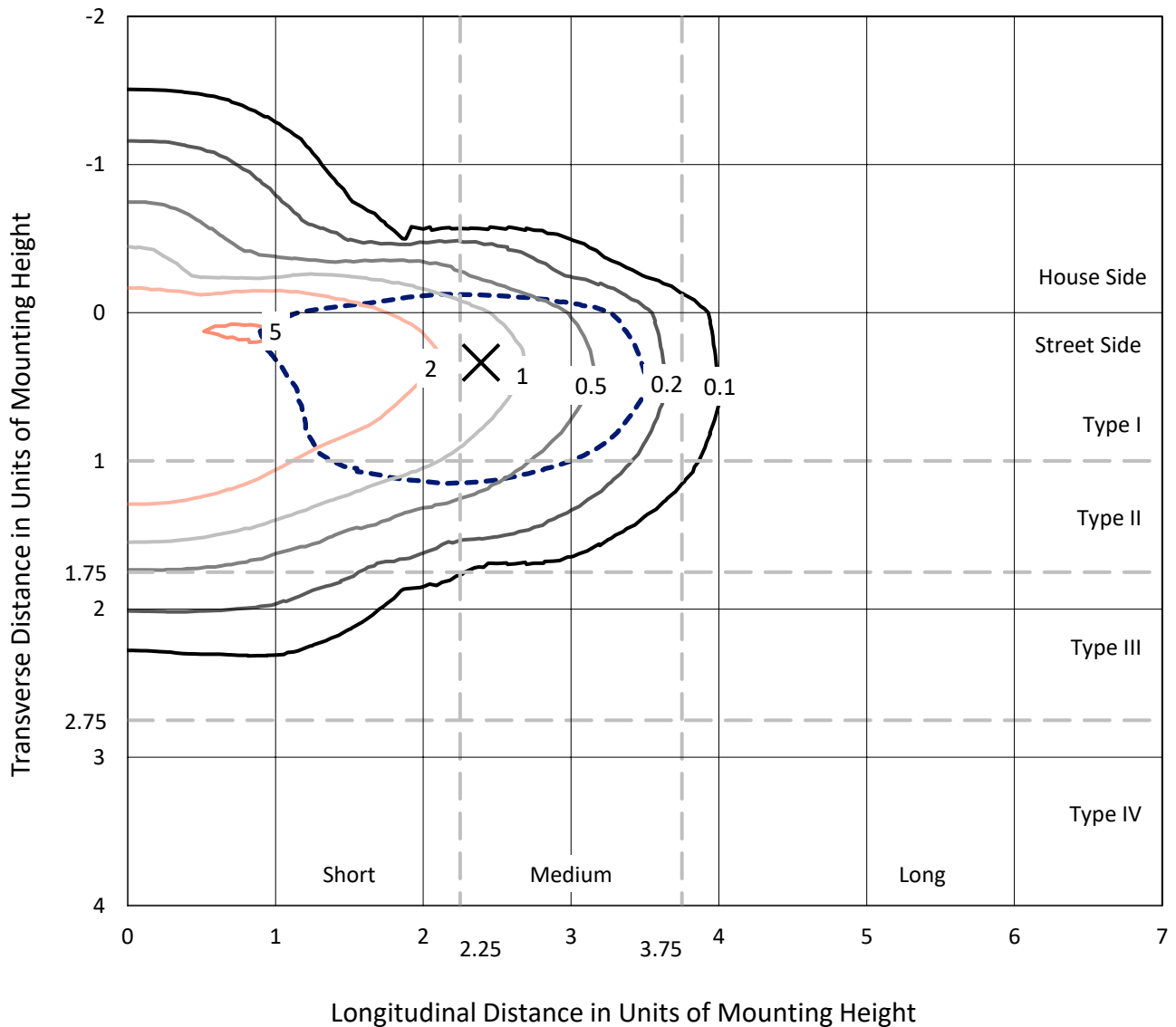
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

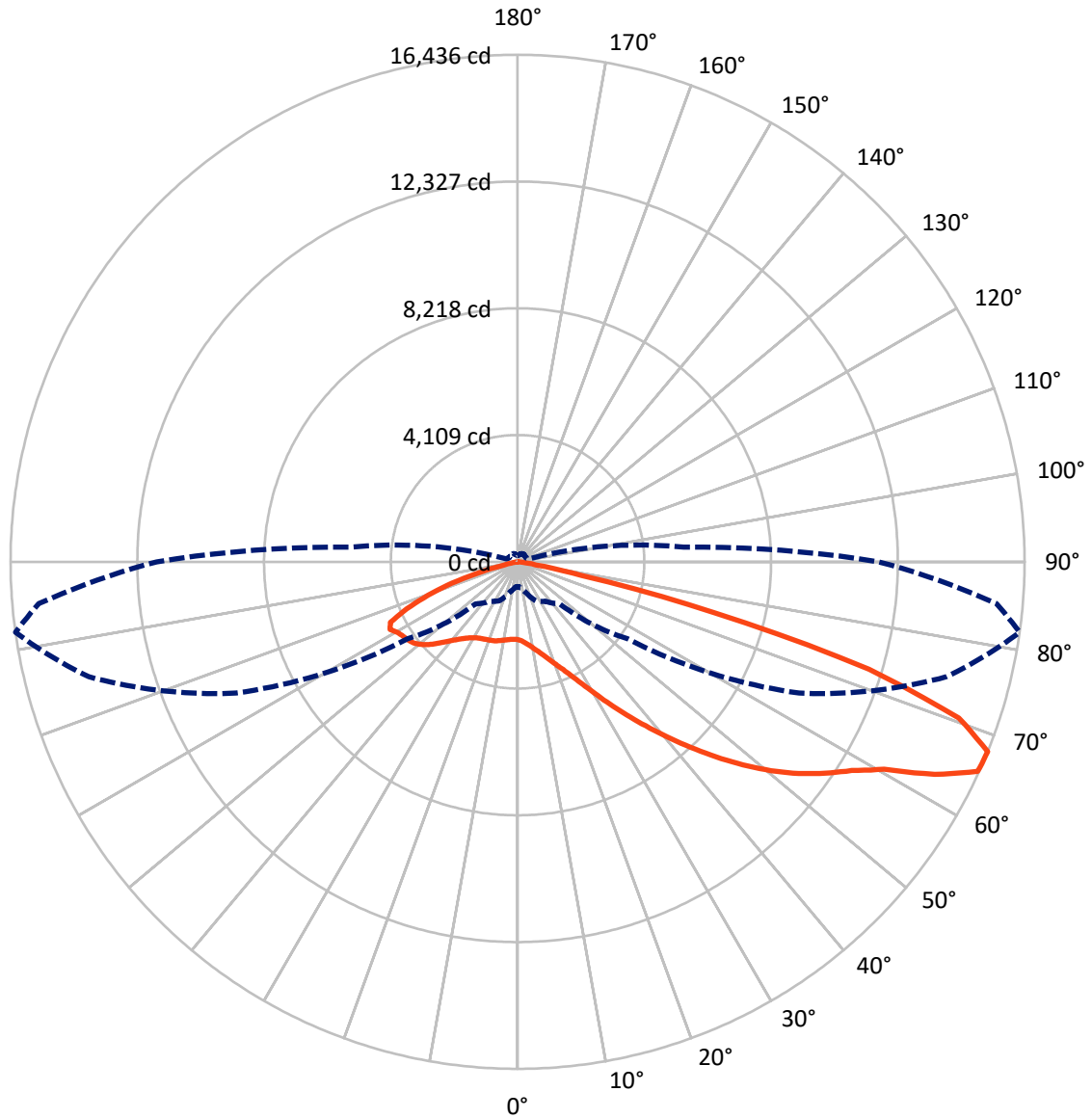
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2759.0	0.0	2759.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	12472.4	0.0	12472.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	15231.5	0.0	15231.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.8	1.5
10°-20°	584.2	3.8
20°-30°	935.7	6.1
30°-40°	1654.6	10.9
40°-50°	2899.0	19.0
50°-60°	3866.5	25.4
60°-70°	3599.5	23.6
70°-80°	1381.5	9.1
80°-90°	85.8	0.6
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°	15231.5	100.0
0°-180°	15231.5	100.0

**Coefficient of Utilization**



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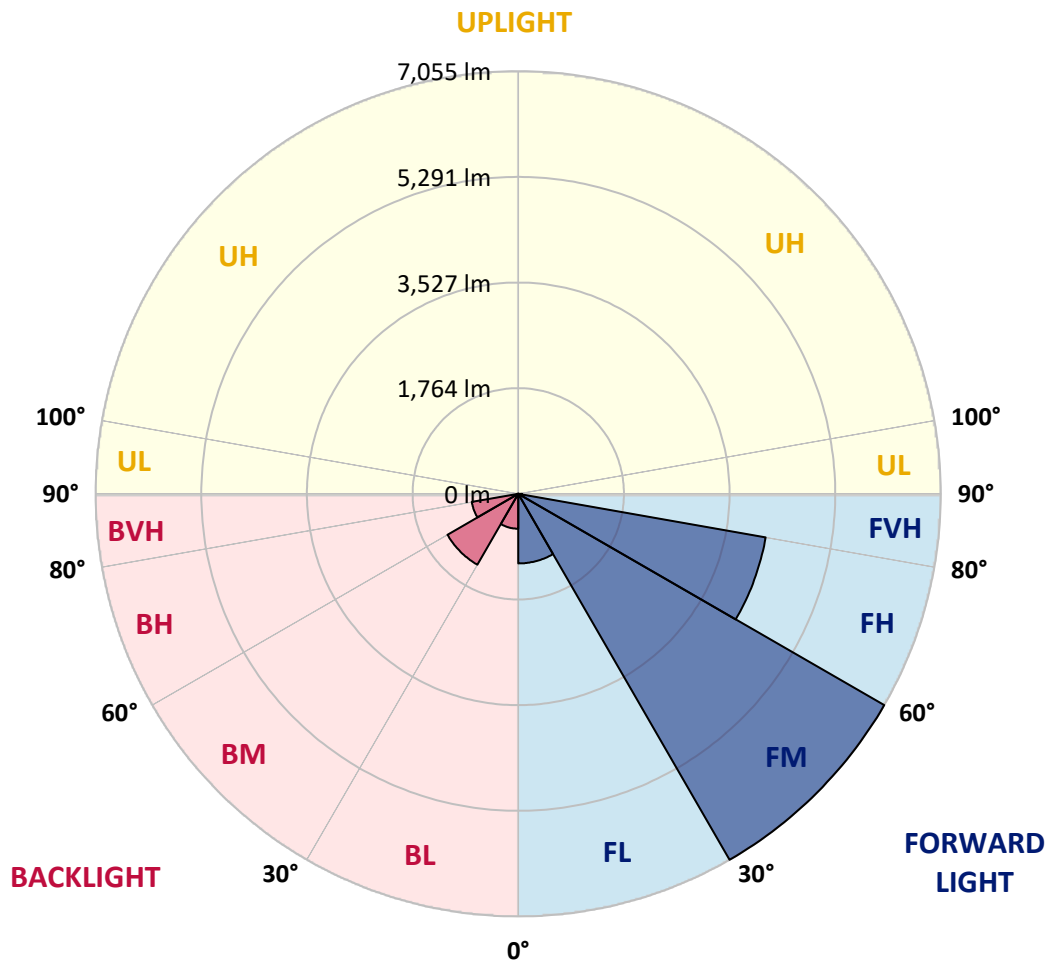
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1162.0	7.6			
FM (30°-60°)	7054.6	46.3			
FH (60°-80°)	4193.5	27.5			G2/5000
FVH (80°-90°)	62.4	0.4			G1/100
BL (0°-30°)	582.7	3.8	B2/1000		
BM (30°-60°)	1365.4	9.0	B2/2500		
BH (60°-80°)	787.5	5.2	B2/1000		G2/1000
BVH (80°-90°)	23.4	0.2			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°	82°	85°
0°	2523.3	2523.3	2523.3	2523.3	2523.3	2523.3	2523.3	2523.3	2523.3	2523.3	2523.3
2.5°	2667.0	2682.3	2673.6	2669.2	2661.5	2650.5	2641.7	2614.4	2585.9	2567.2	2560.7
5°	2720.8	2736.1	2735.0	2739.4	2744.8	2748.1	2746.0	2715.2	2674.6	2642.9	2624.2
7.5°	2674.6	2692.3	2706.5	2728.4	2766.8	2807.4	2827.2	2820.5	2778.9	2735.0	2711.9
10°	2544.2	2562.8	2596.8	2648.4	2729.5	2817.2	2890.7	2924.7	2898.4	2850.1	2818.3
12.5°	2305.1	2323.8	2390.6	2502.5	2638.5	2791.0	2931.3	3022.3	3028.9	2980.6	2943.4
15°	2036.5	2055.1	2126.4	2266.7	2474.0	2718.5	2953.2	3125.4	3183.5	3141.8	3096.8
17.5°	1869.7	1886.2	1939.9	2052.9	2268.9	2573.8	2945.5	3235.1	3367.7	3334.8	3281.1
20°	1819.3	1833.5	1858.8	1937.8	2117.5	2423.5	2895.1	3338.1	3566.3	3547.6	3487.3
22.5°	1873.1	1886.2	1893.9	1928.9	2041.9	2324.9	2831.5	3443.4	3796.5	3798.8	3725.3
25°	1997.0	2010.1	2001.3	2023.2	2072.7	2294.2	2807.4	3567.3	4086.1	4110.1	4026.8
27.5°	2201.0	2202.0	2181.2	2180.1	2187.8	2340.2	2832.6	3700.0	4451.3	4496.2	4393.0
30°	2610.0	2593.6	2513.5	2426.8	2387.3	2478.3	2902.8	3856.9	4882.2	4962.2	4832.9
32.5°	3240.5	3216.4	3069.5	2862.2	2653.8	2701.0	3028.9	4035.6	5351.5	5496.3	5338.4
35°	3924.8	3918.3	3764.7	3456.6	3092.5	3017.9	3234.0	4270.3	5863.7	6093.9	5906.5
37.5°	4560.8	4557.6	4469.8	4106.9	3663.9	3459.9	3562.9	4577.3	6412.0	6745.3	6523.8
40°	5142.1	5152.0	5064.2	4739.6	4293.3	4026.8	4010.4	4956.8	7021.8	7454.9	7191.7
42.5°	5644.4	5655.3	5566.5	5326.3	4915.1	4654.1	4559.8	5421.7	7617.2	8217.0	7905.6
45°	5985.4	6053.4	6040.2	5848.3	5553.3	5282.4	5219.9	6005.2	8296.0	9025.2	8660.1
47.5°	6081.9	6144.5	6243.1	6269.4	6089.6	5823.1	5897.6	6708.1	8982.5	9834.6	9418.9
50°	5843.9	5902.1	6107.2	6380.2	6505.2	6423.0	6556.7	7461.5	9685.4	10641.7	10163.6
52.5°	5374.6	5433.8	5692.6	6124.7	6634.6	6893.4	7218.0	8203.9	10366.4	11406.0	10868.7
55°	4695.7	4758.3	5090.6	5579.7	6387.9	7087.5	7769.6	8945.2	10990.5	12093.7	11504.7
57.5°	3772.4	3818.4	4163.9	4848.1	5767.2	6894.5	8176.4	9754.5	11578.2	12769.1	12135.3
60°	2458.7	2499.3	2900.5	3663.9	4738.6	6249.7	8257.6	10657.0	12359.0	13647.6	12985.2
62.5°	1635.1	1662.4	1900.5	2460.8	3337.1	5011.6	7782.8	11377.5	13503.9	15176.3	14442.6
65°	1121.9	1149.2	1387.2	1777.7	2156.0	3315.2	6417.5	11282.1	14541.3	16390.3	15522.8
67.5°	800.5	823.6	1025.3	1393.8	1560.5	1925.7	4350.3	10062.6	14392.1	16436.3	15580.9
70°	573.5	586.7	753.4	1085.7	1240.2	1156.9	2419.2	7696.1	12601.3	15177.4	14394.4
72.5°	401.4	405.8	523.1	826.9	999.1	844.4	1151.5	5131.2	9530.8	11912.7	11159.3
75°	271.9	277.5	352.0	606.4	801.7	644.8	609.8	2751.4	5595.0	6594.0	5910.9
77.5°	166.7	168.9	227.0	414.5	599.8	491.3	392.6	1165.7	2164.7	2125.2	1811.6
80°	94.3	94.3	144.7	257.7	409.1	316.9	275.2	495.7	685.4	602.1	530.7
82.5°	52.7	53.7	105.3	160.1	270.9	187.5	151.3	229.2	296.1	262.1	228.1
85°	21.9	24.1	64.7	75.6	129.4	93.2	61.4	96.5	109.7	97.6	71.2
87.5°	2.2	3.3	19.8	14.2	15.4	18.7	8.8	18.7	15.4	15.4	11.0
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°	2523.3	2523.3	2523.3	2523.3	2523.3	2523.3	2523.3	2523.3	2523.3	2523.3	2523.3
2.5°	2539.7	2523.3	2481.6	2433.5	2369.8	2339.2	2297.4	2268.9	2244.8	2247.0	2225.1
5°	2589.1	2547.4	2454.3	2338.0	2193.3	2090.2	1980.5	1904.9	1843.5	1830.2	1800.6
7.5°	2657.1	2591.3	2427.9	2218.5	1973.9	1788.6	1623.0	1516.6	1440.9	1416.9	1392.8
10°	2744.8	2649.4	2394.0	2068.2	1716.3	1480.4	1302.8	1219.4	1167.9	1150.4	1137.2
12.5°	2846.8	2716.4	2349.0	1885.1	1450.9	1223.8	1110.9	1069.2	1052.8	1047.2	1044.0
15°	2975.2	2799.7	2281.0	1668.0	1226.0	1067.0	1018.7	1013.3	1015.5	1013.3	1012.2
17.5°	3127.6	2890.7	2170.2	1444.2	1074.7	987.0	969.4	973.9	979.3	978.2	976.0
20°	3294.2	2980.6	2028.8	1245.8	971.6	930.0	920.0	924.4	928.9	926.7	925.6
22.5°	3484.0	3077.2	1872.0	1091.1	902.5	877.3	866.3	867.5	867.5	863.0	860.9
25°	3711.0	3183.5	1707.4	981.4	849.9	830.1	817.0	812.6	806.1	792.8	790.7
27.5°	3981.8	3296.5	1549.5	904.8	808.2	789.6	774.2	763.2	746.8	724.9	722.7
30°	4286.8	3433.5	1415.7	856.5	775.3	756.7	739.1	722.7	698.5	671.2	668.9
32.5°	4645.3	3580.5	1318.1	824.7	745.7	726.0	705.1	685.4	659.1	631.7	632.7
35°	5073.0	3758.2	1261.2	802.8	722.7	696.4	673.3	651.4	631.7	607.5	605.4
37.5°	5536.8	3946.8	1243.5	791.8	707.4	666.8	640.4	625.0	622.9	608.6	607.5
40°	6044.6	4170.5	1256.8	785.2	690.8	638.3	609.8	606.4	611.9	586.7	587.8
42.5°	6581.9	4435.9	1278.7	777.5	667.9	609.8	582.3	582.3	577.9	542.8	542.8
45°	7163.2	4741.9	1300.6	758.9	640.4	581.2	560.4	552.7	534.0	500.1	499.0
47.5°	7748.8	5053.2	1317.0	724.9	607.5	557.1	538.4	520.9	493.4	462.8	461.7
50°	8304.8	5332.9	1299.5	674.4	570.2	534.0	514.3	490.2	460.6	439.7	436.4
52.5°	8801.6	5575.3	1225.0	615.2	530.7	509.9	492.4	467.2	443.0	421.1	418.9
55°	9233.6	5771.6	1093.4	559.2	495.7	489.1	471.5	439.7	406.8	388.2	386.0
57.5°	9648.1	5920.7	928.9	513.2	463.9	466.1	439.7	411.2	380.5	360.8	358.6
60°	10199.8	6120.3	762.2	470.5	429.9	436.4	408.0	387.1	348.7	323.5	320.2
62.5°	11081.5	6430.6	605.4	417.8	390.4	392.6	380.5	355.3	309.2	279.6	277.5
65°	11781.0	6316.6	477.0	360.8	345.4	348.7	348.7	321.3	271.9	238.0	234.7
67.5°	11702.1	5408.6	380.5	304.8	302.7	304.8	312.5	289.5	241.3	213.8	209.4
70°	10779.8	4302.0	304.8	253.3	263.2	257.7	279.6	264.2	217.1	189.7	186.4
72.5°	8796.0	3099.1	232.5	209.4	201.8	210.5	252.3	238.0	180.9	150.3	147.0
75°	5139.9	1653.7	173.2	165.6	145.9	175.5	223.8	202.8	138.2	110.8	107.4
77.5°	1673.4	576.9	127.2	121.8	108.5	141.4	190.9	171.1	113.0	87.7	84.5
80°	448.5	174.4	86.6	80.1	70.2	105.3	151.3	136.0	81.2	57.0	56.0
82.5°	179.9	73.5	50.4	45.0	38.3	72.4	119.5	109.7	60.3	36.2	36.2
85°	58.1	24.1	18.7	14.2	17.5	45.0	71.2	74.6	42.7	18.7	14.2
87.5°	7.7	3.3	3.3	4.4	3.3	7.7	21.9	20.8	12.1	2.2	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)