

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: P960853

Luminaire Tested: **NAV-SB1D-730-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960853  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1D-730-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8182.6 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

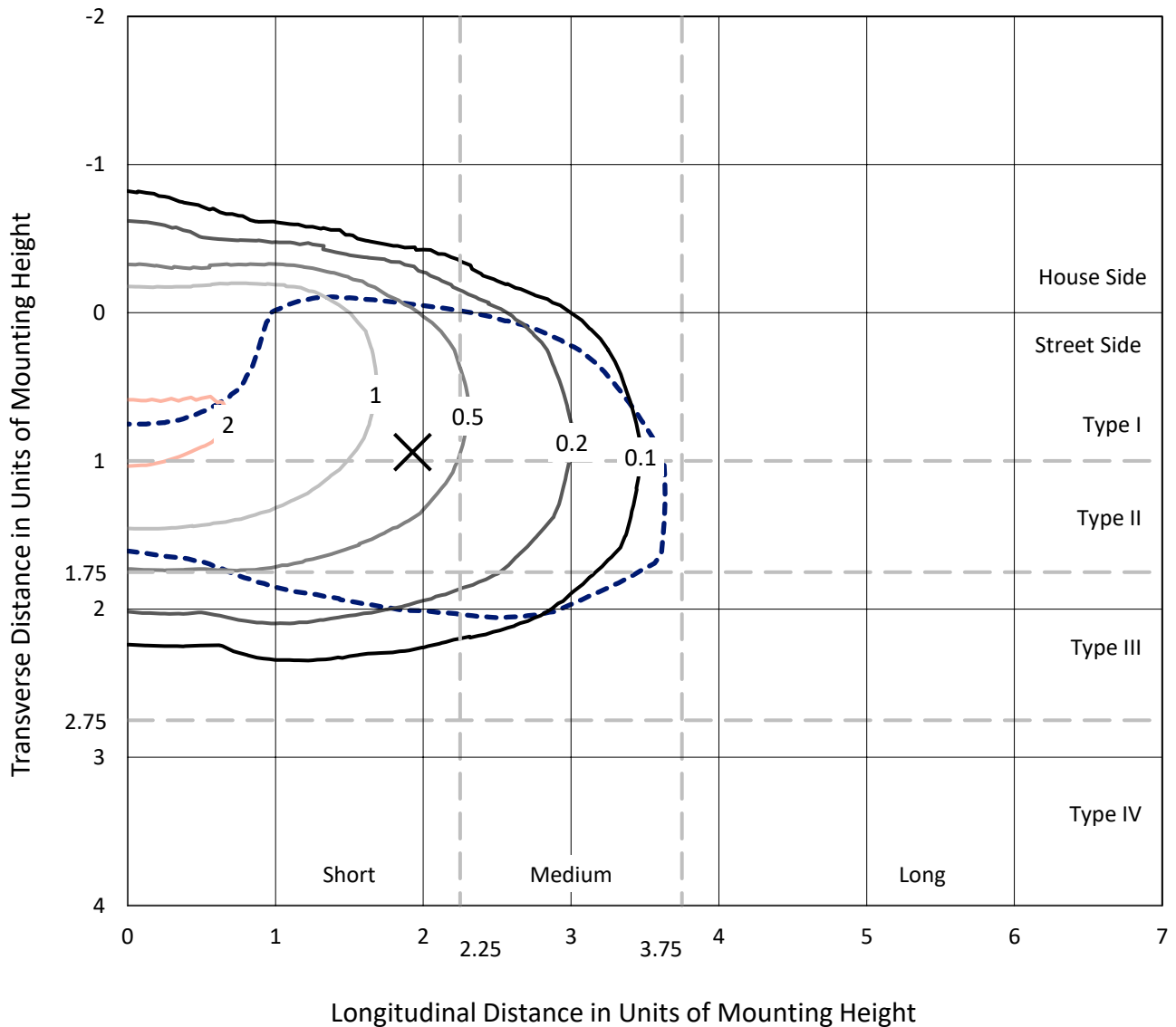
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

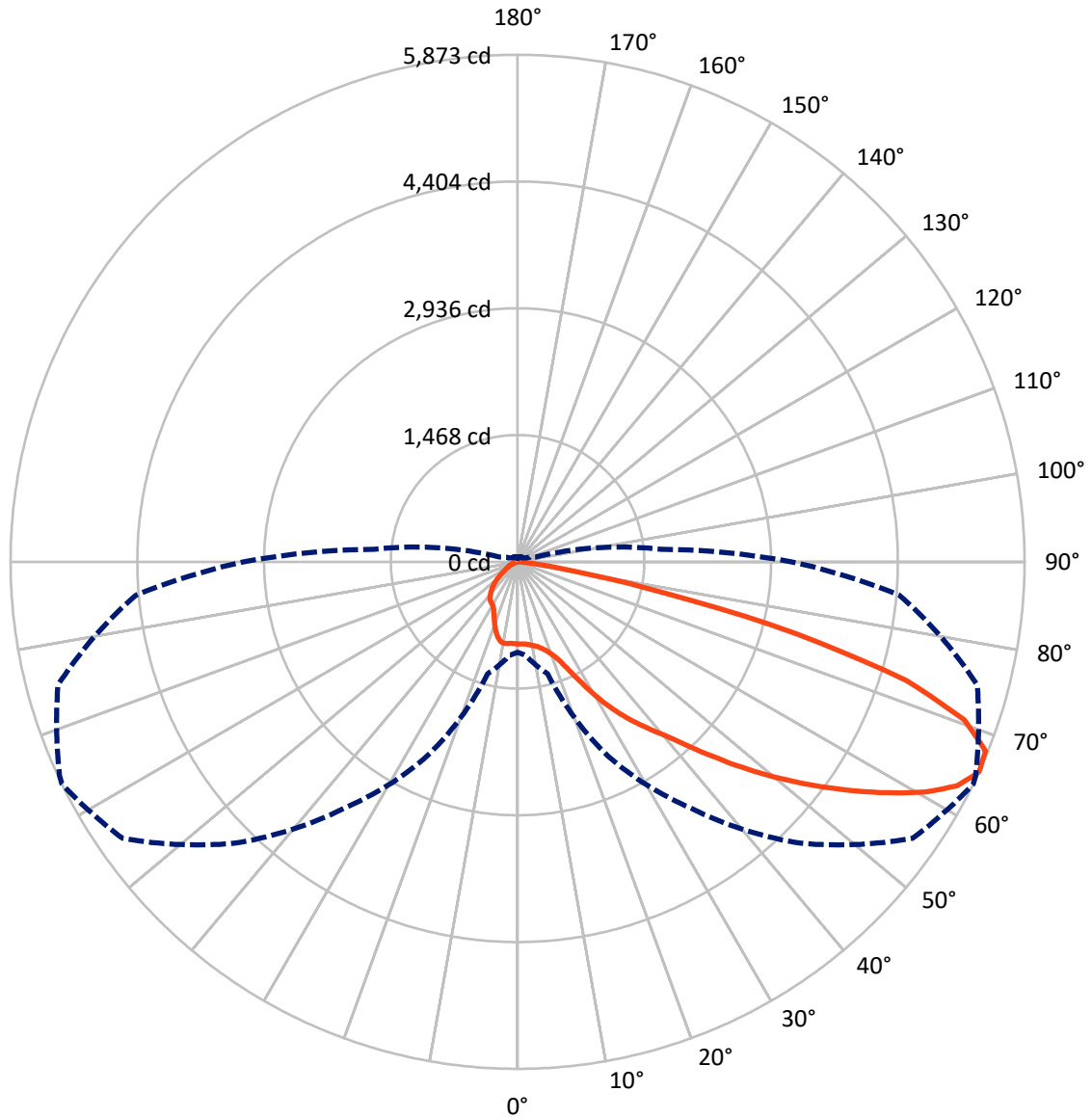
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1094.3	0.0	1094.3
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	7088.3	0.0	7088.3
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	8182.6	0.0	8182.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.8	1.1
10°-20°	238.2	2.9
20°-30°	451.3	5.5
30°-40°	913.2	11.2
40°-50°	1555.6	19.0
50°-60°	2115.5	25.9
60°-70°	1986.6	24.3
70°-80°	795.9	9.7
80°-90°	38.6	0.5
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°	8182.6	100.0
0°-180°	8182.6	100.0

**Coefficient of Utilization**



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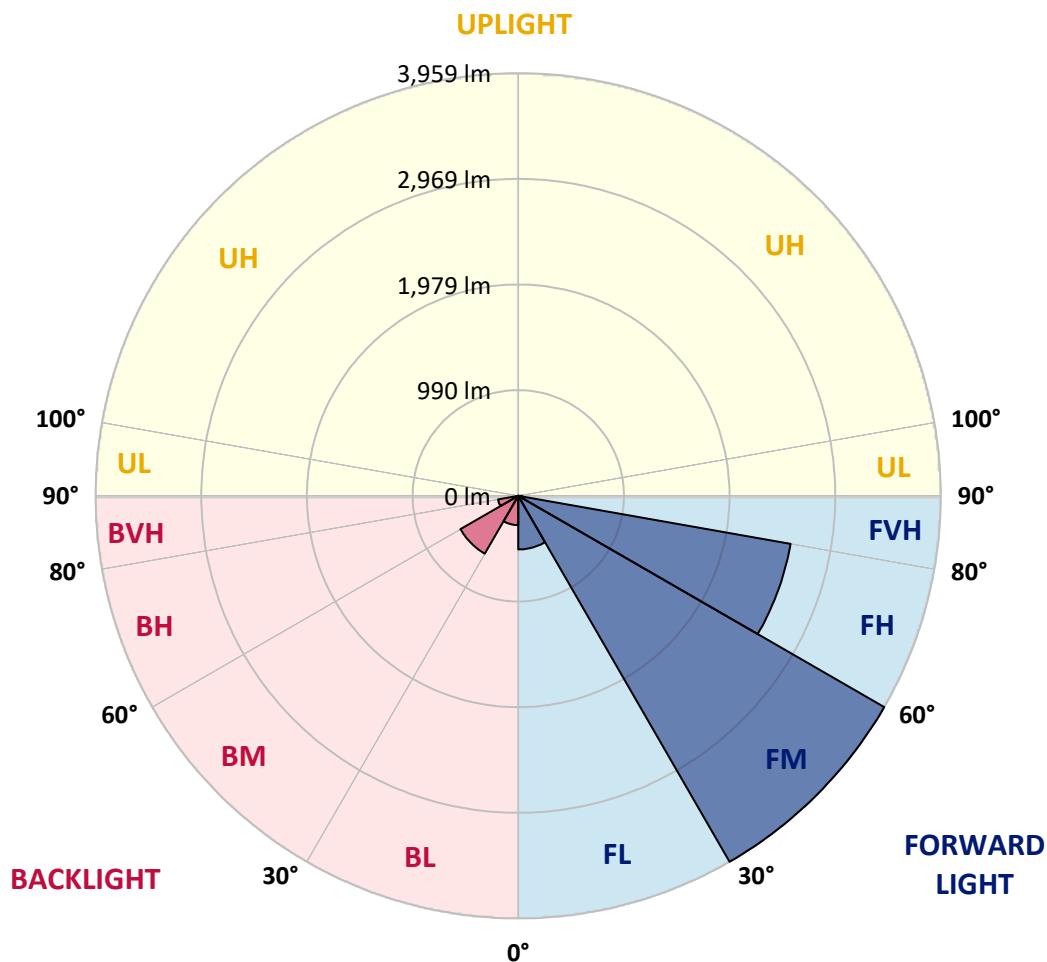
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	502.5	6.1			
FM (30°-60°)	3958.7	48.4			
FH (60°-80°)	2590.4	31.7			G2/5000
FVH (80°-90°)	36.7	0.4			G1/100
BL (0°-30°)	274.7	3.4	B1/500		
BM (30°-60°)	625.6	7.6	B1/1000		
BH (60°-80°)	192.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7
2.5°	948.4	955.0	953.4	951.7	951.2	952.2	952.8	952.2	952.2	952.2	952.8
5°	930.3	935.8	935.8	939.6	945.2	951.7	956.6	957.8	958.9	960.5	959.9
7.5°	895.7	900.2	903.4	916.0	929.8	947.3	962.2	969.9	970.9	976.9	979.2
10°	872.2	877.7	883.1	896.4	916.0	942.4	967.6	986.3	989.0	1003.3	1009.8
12.5°	871.0	876.6	883.7	898.0	921.0	948.9	979.7	1006.6	1011.5	1032.4	1046.1
15°	882.6	889.2	895.7	913.3	938.0	972.0	1004.9	1038.4	1043.3	1073.0	1087.7
17.5°	906.2	914.9	919.9	937.5	963.8	1001.6	1045.0	1083.3	1087.7	1122.3	1140.9
20°	952.8	963.2	964.8	979.2	1004.9	1045.5	1097.1	1144.8	1150.3	1189.8	1210.6
22.5°	1049.4	1064.2	1051.0	1058.1	1081.2	1121.8	1177.7	1238.1	1245.8	1290.7	1309.3
25°	1219.4	1240.2	1206.2	1194.1	1204.1	1246.3	1316.5	1392.8	1401.5	1437.8	1447.1
27.5°	1553.5	1526.6	1475.1	1424.5	1394.9	1419.1	1498.0	1592.4	1603.4	1638.5	1627.5
30°	1920.4	1896.9	1827.2	1715.3	1645.1	1641.2	1714.2	1819.5	1832.1	1865.6	1832.1
32.5°	2288.0	2265.5	2189.8	2052.0	1930.3	1870.0	1920.4	2037.3	2043.8	2065.3	2015.9
35°	2649.4	2626.5	2550.7	2409.8	2260.0	2122.9	2112.9	2244.6	2246.8	2269.4	2195.9
37.5°	3013.1	2993.9	2913.3	2775.1	2627.5	2438.3	2346.6	2441.0	2443.7	2465.7	2389.5
40°	3272.6	3280.8	3225.5	3118.5	2991.8	2784.9	2608.8	2650.0	2633.5	2670.3	2624.7
42.5°	3495.4	3511.8	3463.5	3409.8	3336.3	3154.1	2933.5	2926.5	2900.1	2919.9	2872.7
45°	3687.8	3701.6	3658.2	3645.6	3644.0	3516.2	3288.5	3245.8	3209.0	3205.2	3148.6
47.5°	3758.6	3784.9	3803.6	3845.8	3928.1	3874.3	3655.5	3589.1	3547.9	3517.8	3428.4
50°	3785.5	3813.4	3877.1	4000.0	4194.7	4217.8	4020.8	3946.2	3895.7	3840.9	3709.3
52.5°	3749.2	3799.2	3884.7	4091.6	4374.1	4493.1	4371.3	4306.0	4248.4	4159.0	3963.8
55°	3535.9	3585.9	3760.8	4090.5	4463.5	4686.2	4702.6	4673.6	4608.8	4467.9	4169.5
57.5°	3086.1	3160.2	3437.1	3951.2	4461.8	4852.3	5027.4	5048.2	4975.9	4773.9	4331.2
60°	2463.0	2563.3	2901.3	3642.3	4324.2	4942.3	5312.1	5416.3	5339.5	5075.7	4462.3
62.5°	1718.6	1834.9	2154.7	3158.5	4009.3	4877.7	5519.9	5712.5	5654.3	5345.6	4512.9
65°	1048.3	1085.6	1343.4	2485.4	3473.9	4606.7	5584.1	5872.6	5853.5	5510.6	4438.2
67.5°	698.3	729.6	803.6	1704.3	2696.7	4065.3	5430.6	5844.7	5850.2	5483.7	4165.1
70°	420.8	447.6	495.9	991.2	1747.6	3217.8	4955.0	5488.2	5519.9	5124.5	3647.3
72.5°	173.3	191.5	235.3	449.3	905.1	2042.2	3945.6	4711.9	4786.0	4308.8	2799.2
75°	98.2	107.5	138.3	225.5	392.8	951.7	2390.0	3345.0	3454.1	2969.8	1684.0
77.5°	65.3	69.7	89.4	146.0	221.1	324.7	1021.4	1742.7	1951.2	1622.1	729.0
80°	43.9	47.8	61.4	97.7	143.7	139.3	325.3	645.6	794.3	557.3	177.7
82.5°	29.6	30.1	43.9	64.2	91.0	67.4	96.0	200.8	252.4	161.2	67.4
85°	17.0	16.5	32.4	37.3	40.6	28.0	29.1	60.4	79.0	68.1	38.4
87.5°	2.2	3.3	12.6	9.8	5.5	6.0	6.0	10.5	15.4	16.5	8.2
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°	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7
2.5°	952.8	952.2	950.6	948.9	945.2	942.9	944.0	942.9	942.4	942.9	945.2
5°	959.9	958.3	953.9	948.4	940.7	931.4	925.4	916.7	908.4	903.4	904.6
7.5°	979.2	977.5	971.5	956.1	931.4	892.5	856.8	825.5	802.0	788.2	788.8
10°	1009.8	1007.2	997.8	963.8	899.0	814.1	743.2	684.6	646.2	628.1	626.5
12.5°	1046.1	1042.7	1026.3	956.6	837.6	704.9	607.2	541.9	506.4	490.4	488.7
15°	1088.9	1084.4	1052.1	922.6	748.2	584.1	494.8	446.0	422.9	408.7	409.2
17.5°	1142.1	1134.4	1071.3	871.7	651.1	492.0	425.7	388.9	368.6	354.9	353.8
20°	1211.1	1198.5	1086.7	810.8	561.7	433.9	379.0	348.3	332.9	320.9	318.7
22.5°	1307.7	1289.7	1105.4	744.9	498.7	393.8	344.5	322.0	309.3	295.7	293.5
25°	1427.3	1405.9	1128.3	684.0	455.3	359.3	319.3	300.6	285.8	269.9	268.2
27.5°	1594.6	1556.3	1155.8	634.1	418.0	329.6	296.2	275.4	258.4	245.2	242.4
30°	1781.1	1718.0	1179.9	603.9	384.0	302.3	266.1	245.2	229.3	220.0	218.3
32.5°	1957.7	1872.2	1195.9	590.8	353.2	271.0	233.1	210.6	198.5	195.9	197.5
35°	2124.5	2011.5	1194.1	578.2	325.8	239.7	200.8	177.7	168.4	170.0	170.0
37.5°	2316.5	2160.2	1182.6	558.4	303.3	211.2	172.8	152.5	144.2	144.8	147.0
40°	2539.7	2331.9	1175.6	521.1	278.7	184.8	149.8	133.2	127.3	125.0	124.5
42.5°	2777.9	2498.0	1176.6	478.9	247.9	161.2	133.9	120.1	114.6	113.0	112.4
45°	3017.0	2656.6	1178.2	435.0	215.6	143.2	122.3	110.8	107.5	105.4	105.4
47.5°	3241.9	2791.5	1147.6	387.9	183.8	129.5	113.0	105.4	102.6	99.8	99.8
50°	3451.4	2881.5	1073.5	332.9	158.6	118.5	105.9	100.3	97.7	94.9	94.9
52.5°	3614.4	2895.7	951.2	276.4	140.9	110.3	101.5	96.6	93.3	90.5	90.0
55°	3686.7	2806.3	777.3	223.8	127.3	103.1	97.1	92.1	88.4	85.6	85.1
57.5°	3668.1	2618.2	606.2	179.9	114.1	96.0	91.6	88.4	83.9	79.5	79.0
60°	3576.5	2366.4	456.9	149.8	102.0	88.4	85.6	82.8	76.8	70.2	69.1
62.5°	3418.0	2049.9	325.8	123.9	88.9	79.5	78.4	76.3	67.4	55.5	54.3
65°	3175.6	1665.4	219.5	103.1	76.3	69.7	70.2	66.4	54.8	41.1	40.1
67.5°	2821.1	1217.8	140.4	84.5	63.7	58.1	58.7	56.5	46.6	35.2	33.4
70°	2369.7	806.4	91.6	64.2	51.0	45.0	48.3	48.8	39.5	28.5	27.5
72.5°	1737.3	476.1	64.2	47.8	37.3	31.3	39.5	40.6	31.8	21.4	20.3
75°	990.1	226.0	48.3	34.5	23.1	21.9	30.7	30.7	21.9	14.2	13.1
77.5°	415.8	94.3	34.0	22.4	13.1	12.6	20.8	19.2	11.0	6.6	6.6
80°	120.1	42.2	18.1	11.0	5.5	4.9	8.2	6.0	2.8	1.1	1.1
82.5°	47.2	18.7	7.2	4.4	2.2	2.2	1.1	0.0	0.0	0.0	0.0
85°	28.0	7.7	3.3	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	1.6	1.1	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)