

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: P967639

Luminaire Tested: **NAV-SB5A-722-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967639  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5A-722-U-T2U-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

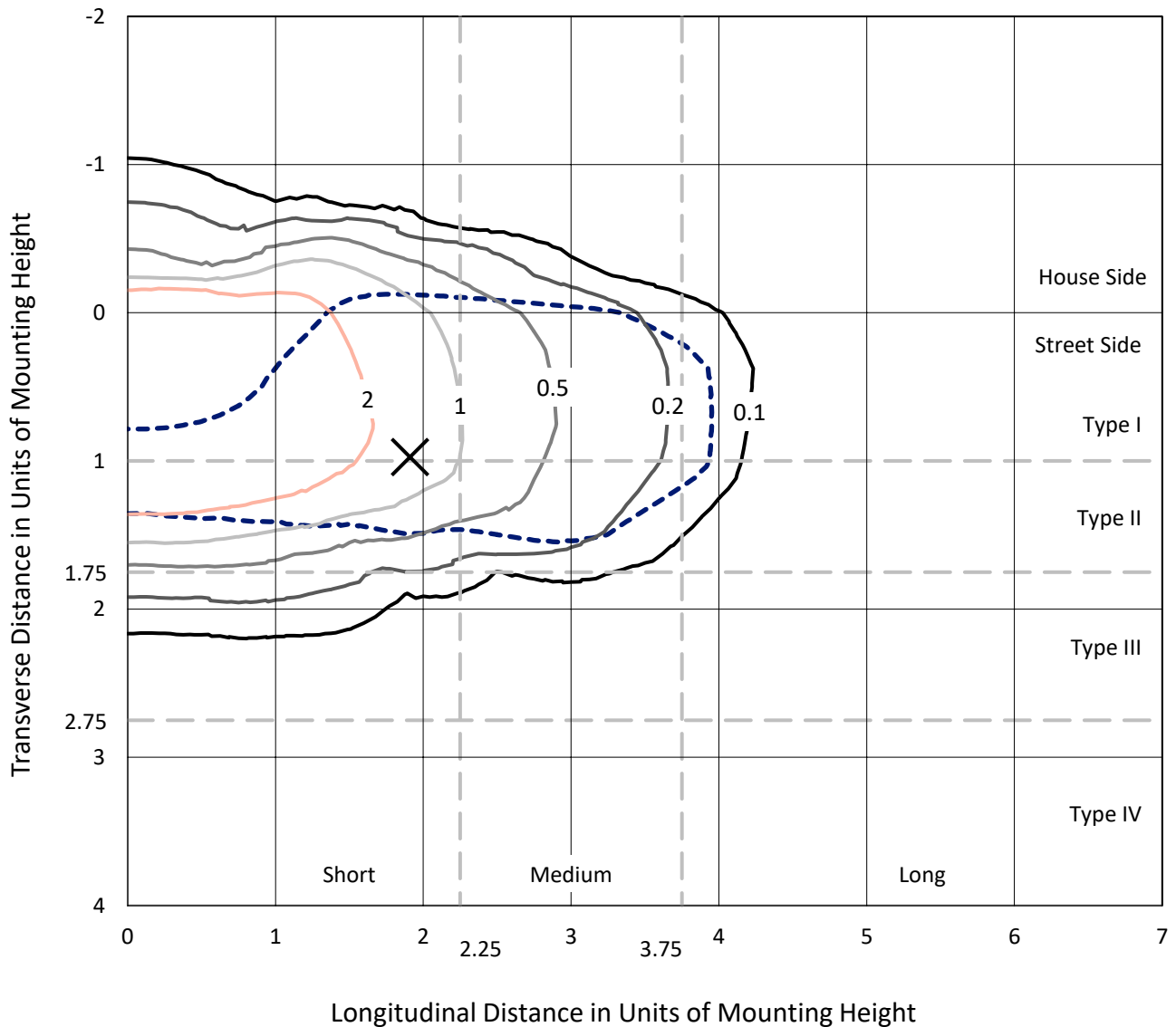
Lumens per Lamp: N/A  
Luminaire Lumens: 14663.6 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): 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

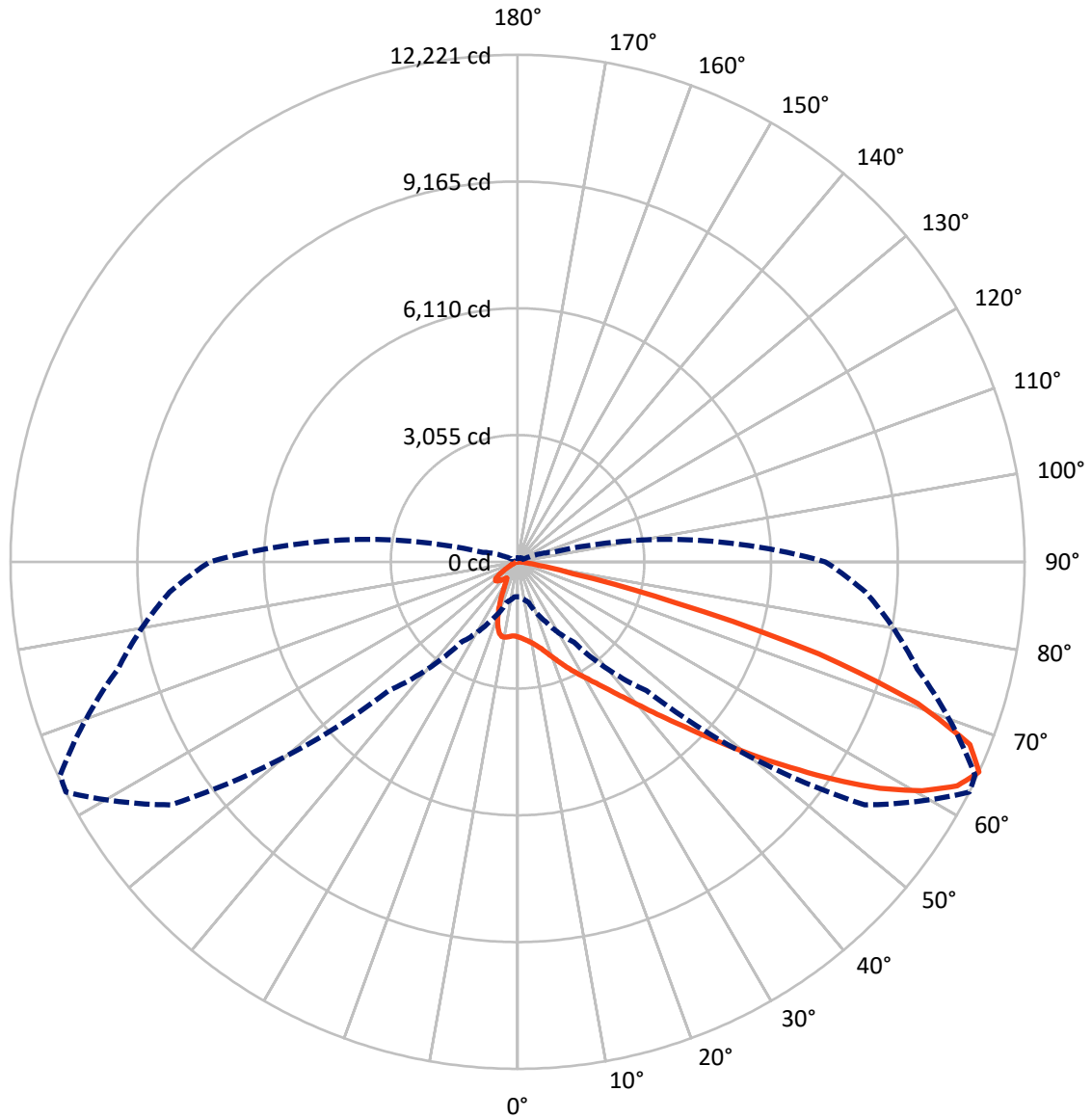
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2155.5	0.0	2155.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	12508.2	0.0	12508.2
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	14663.6	0.0	14663.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.5	1.2
10°-20°	473.1	3.2
20°-30°	823.8	5.6
30°-40°	1484.8	10.1
40°-50°	2944.9	20.1
50°-60°	4011.5	27.4
60°-70°	3201.9	21.8
70°-80°	1448.9	9.9
80°-90°	104.1	0.7
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°	14663.6	100.0
0°-180°	14663.6	100.0

**Coefficient of Utilization**



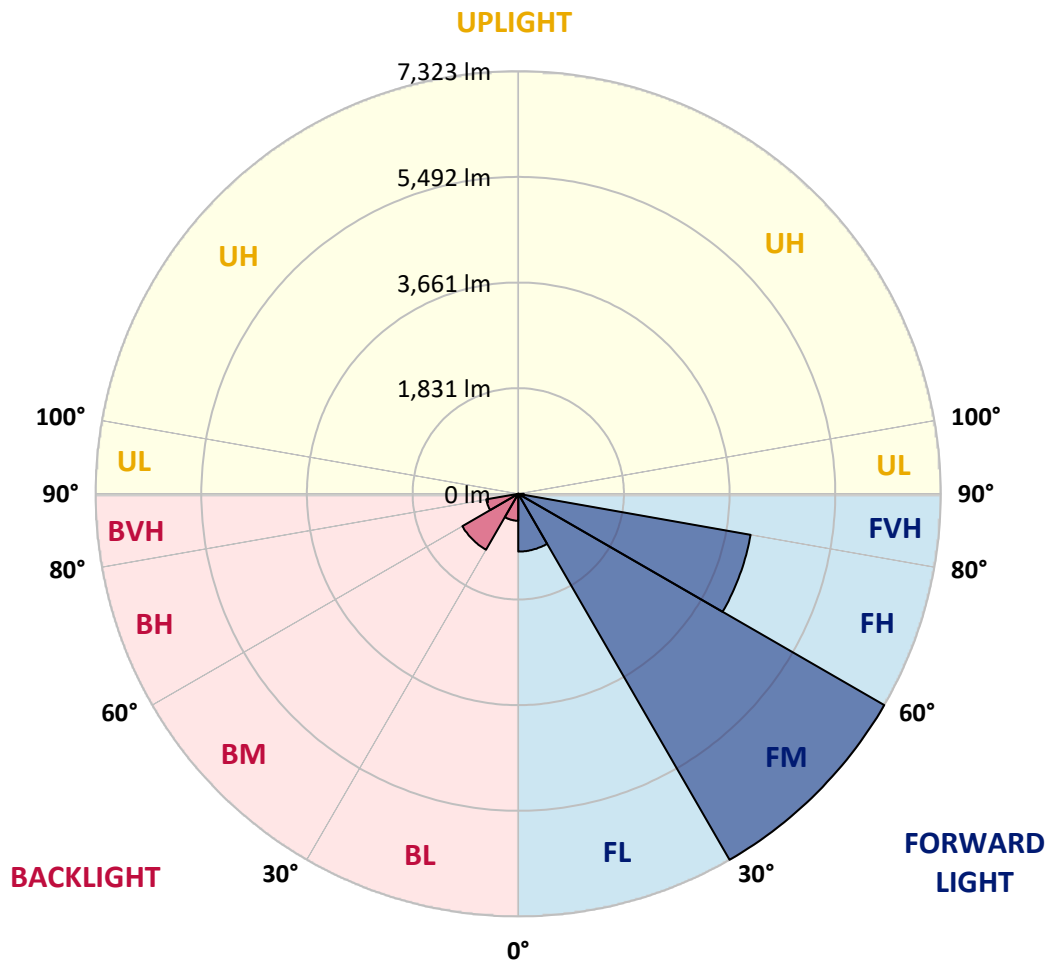
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1001.0	6.8			
FM (30°-60°)	7322.7	49.9			
FH (60°-80°)	4088.2	27.9			G2/5000
FVH (80°-90°)	96.4	0.7			G1/100
BL (0°-30°)	466.5	3.2	B1/500		
BM (30°-60°)	1118.6	7.6	B2/2500		
BH (60°-80°)	562.7	3.8	B2/1000		G2/1000
BVH (80°-90°)	7.7	0.1			G0/10
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1809.7	1809.7	1809.7	1809.7	1809.7	1809.7	1809.7	1809.7	1809.7	1809.7	1809.7
2.5°	1852.2	1847.0	1854.1	1851.2	1849.1	1845.1	1843.1	1841.0	1837.0	1834.0	1821.8
5°	1857.2	1854.1	1861.2	1867.2	1873.3	1879.3	1882.4	1886.4	1882.4	1874.3	1862.2
7.5°	1814.9	1812.8	1827.9	1846.1	1873.3	1896.6	1921.8	1935.9	1936.8	1933.9	1920.7
10°	1811.8	1806.8	1821.8	1844.1	1879.3	1920.7	1965.1	1995.4	1999.5	2012.6	1998.4
12.5°	1859.2	1854.1	1875.3	1899.5	1935.9	1979.3	2033.7	2076.1	2082.2	2100.3	2090.2
15°	1938.9	1931.8	1956.0	1987.3	2033.7	2083.1	2140.6	2178.9	2184.1	2206.2	2188.1
17.5°	2031.8	2024.7	2052.9	2086.2	2136.6	2204.2	2270.8	2313.1	2319.2	2333.3	2300.0
20°	2150.8	2141.6	2163.9	2194.1	2247.6	2328.3	2408.0	2468.5	2467.5	2467.5	2413.1
22.5°	2288.9	2274.8	2294.0	2318.2	2368.7	2466.5	2572.4	2644.1	2644.1	2615.8	2526.0
25°	2437.2	2423.1	2444.3	2466.5	2510.8	2621.8	2746.0	2834.7	2838.7	2790.4	2647.1
27.5°	2622.9	2604.7	2620.8	2647.1	2673.3	2786.3	2933.5	3036.5	3038.5	2963.8	2762.1
30°	2980.0	2928.5	2878.1	2849.8	2861.9	2973.9	3131.3	3245.3	3255.4	3152.5	2887.1
32.5°	3633.6	3623.6	3446.0	3214.0	3092.9	3175.7	3352.3	3489.4	3495.5	3363.3	3049.6
35°	4649.5	4637.4	4351.9	3910.1	3515.6	3446.0	3620.5	3783.0	3779.0	3629.6	3260.4
37.5°	5862.1	5851.0	5474.7	4883.5	4245.0	3854.6	3966.5	4137.0	4162.3	3966.5	3532.8
40°	6898.1	6856.7	6618.6	6048.7	5213.5	4532.5	4458.9	4571.8	4598.0	4366.1	3878.8
42.5°	7683.0	7647.6	7526.6	7170.5	6385.6	5535.2	5038.9	5082.3	5111.6	4833.1	4276.3
45°	8089.5	8081.4	8129.9	8096.6	7580.1	6765.9	5868.1	5687.5	5698.7	5350.6	4727.2
47.5°	8147.0	8143.0	8363.9	8676.6	8607.0	8154.1	6932.4	6442.1	6402.8	5934.7	5217.5
50°	7808.0	7799.9	8223.7	8809.8	9293.0	9320.2	8141.0	7292.6	7205.7	6539.0	5728.9
52.5°	6725.6	6723.6	7419.7	8395.2	9534.0	10341.1	9335.4	8226.6	8081.4	7178.6	6269.6
55°	5175.1	5212.4	6010.4	7163.4	9094.2	10832.4	10407.7	9263.7	9040.8	7822.2	6768.0
57.5°	3665.9	3720.4	4509.3	5536.2	7730.3	10541.8	11133.0	10302.8	10062.7	8463.7	7273.4
60°	1969.1	2017.6	2807.5	4033.2	5751.1	9458.4	11515.4	11204.7	10977.6	9073.1	7729.3
62.5°	1173.2	1189.4	1516.2	2603.7	3889.9	7225.9	11352.9	11891.6	11705.0	9584.6	8125.8
65°	842.3	845.3	1009.8	1589.9	2361.6	4390.3	10214.0	12220.5	12163.0	9969.9	8419.3
67.5°	709.2	707.1	775.7	1056.2	1609.0	2199.1	7828.2	11755.4	11999.6	10214.0	8585.8
70°	608.3	611.3	692.1	773.8	1209.5	1244.9	3891.9	10235.2	10755.7	10278.6	8575.8
72.5°	452.9	463.0	537.7	705.1	913.0	856.5	1343.7	7589.1	8530.4	9684.4	8130.8
75°	319.8	324.8	378.3	593.2	680.9	623.4	685.9	3923.2	5129.7	7424.7	6655.0
77.5°	246.1	255.2	286.5	414.6	670.9	437.8	419.6	1357.8	2086.2	4485.1	4562.8
80°	133.1	149.3	206.8	299.6	471.1	309.7	207.8	540.7	707.1	2097.3	1759.3
82.5°	68.6	76.7	144.2	215.9	268.3	270.4	102.9	225.0	291.5	647.6	241.1
85°	27.3	33.3	96.9	119.0	138.2	133.1	46.4	90.8	105.0	179.6	73.6
87.5°	6.0	10.0	35.3	27.3	26.2	28.3	11.1	21.2	20.2	21.2	13.1
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°	1809.7	1809.7	1809.7	1809.7	1809.7	1809.7	1809.7	1809.7	1809.7	1809.7	1809.7
2.5°	1820.9	1816.8	1805.7	1793.6	1779.5	1771.4	1766.4	1765.4	1758.3	1753.3	1758.3
5°	1851.2	1847.0	1825.9	1800.7	1773.5	1752.2	1732.0	1713.9	1687.7	1682.6	1680.7
7.5°	1911.6	1900.6	1866.2	1832.0	1780.5	1719.0	1644.3	1558.6	1481.9	1458.7	1447.6
10°	1986.3	1971.2	1927.8	1867.2	1753.3	1585.8	1405.3	1237.8	1104.6	1067.3	1053.2
12.5°	2071.0	2057.9	2000.4	1888.5	1639.3	1335.7	1059.2	851.5	722.3	690.0	680.9
15°	2172.0	2152.8	2073.1	1856.2	1435.5	1014.9	727.3	604.2	557.9	551.9	545.7
17.5°	2278.9	2247.6	2137.6	1740.1	1161.1	721.3	561.9	526.5	506.5	500.4	497.3
20°	2376.7	2336.4	2176.0	1564.7	867.6	561.9	503.4	480.2	462.1	455.0	450.9
22.5°	2474.6	2417.1	2176.0	1325.5	650.7	498.4	462.1	440.9	419.6	410.6	405.5
25°	2576.4	2499.8	2137.6	1059.2	523.6	456.9	422.7	399.4	381.3	370.2	366.2
27.5°	2675.4	2569.4	2049.9	807.0	466.1	420.7	386.3	364.2	347.1	339.0	339.0
30°	2769.1	2637.9	1926.8	612.3	428.8	385.4	353.1	333.9	316.7	308.7	309.7
32.5°	2896.2	2724.8	1795.7	502.4	396.5	352.1	322.8	304.6	289.6	283.5	283.5
35°	3072.7	2852.9	1682.6	493.3	369.2	324.8	295.6	278.4	263.3	258.3	258.3
37.5°	3322.9	3059.6	1623.2	553.8	347.1	300.6	273.4	255.2	241.1	237.1	236.1
40°	3631.7	3340.1	1655.5	614.4	331.9	279.4	253.2	235.0	222.9	217.9	216.9
42.5°	3997.8	3686.1	1834.0	660.7	321.8	261.3	234.0	213.8	205.8	203.8	203.8
45°	4418.5	4066.5	2107.4	710.2	305.7	244.2	214.8	199.8	193.7	192.7	191.7
47.5°	4896.6	4484.1	2424.1	771.7	289.6	228.0	199.8	189.6	184.6	182.6	182.6
50°	5370.8	4904.7	2750.0	806.1	276.4	212.9	187.7	179.6	175.5	174.6	174.6
52.5°	5867.1	5337.5	3013.3	773.8	265.3	200.8	177.5	171.5	167.5	166.5	166.5
55°	6340.2	5687.5	3058.7	656.7	243.1	188.6	166.5	163.4	158.4	158.4	157.3
57.5°	6747.8	5863.1	2737.9	482.2	220.9	170.5	155.4	152.3	148.3	147.3	146.3
60°	7122.1	5812.7	2113.4	324.8	196.7	152.3	141.2	139.2	135.2	130.2	129.1
62.5°	7333.0	5590.8	1445.6	211.9	172.5	133.1	125.0	124.1	115.0	105.0	102.9
65°	7412.6	5134.7	901.9	154.4	144.2	114.0	107.9	105.9	92.8	81.7	80.7
67.5°	7343.0	4384.2	455.0	122.1	114.0	94.8	88.8	88.8	79.7	69.6	68.6
70°	7064.6	3286.7	191.7	97.9	87.7	72.7	72.7	76.7	67.5	56.5	55.5
72.5°	6460.3	2211.2	101.9	74.6	65.6	51.5	59.6	62.5	53.5	42.3	42.3
75°	5135.8	1348.8	70.6	55.5	41.4	36.3	45.4	47.5	36.3	28.3	27.3
77.5°	3512.6	774.8	47.5	35.3	26.2	21.2	31.3	29.2	19.2	13.1	14.1
80°	1542.4	322.8	27.3	16.1	10.0	8.1	11.1	8.1	6.0	4.0	4.0
82.5°	180.6	75.6	10.0	6.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0
85°	37.3	9.1	5.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	2.0	1.0	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)