

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: P965007

Luminaire Tested: **NAV-SB3D-722-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965007  
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-SB3D-722-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20275.5 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

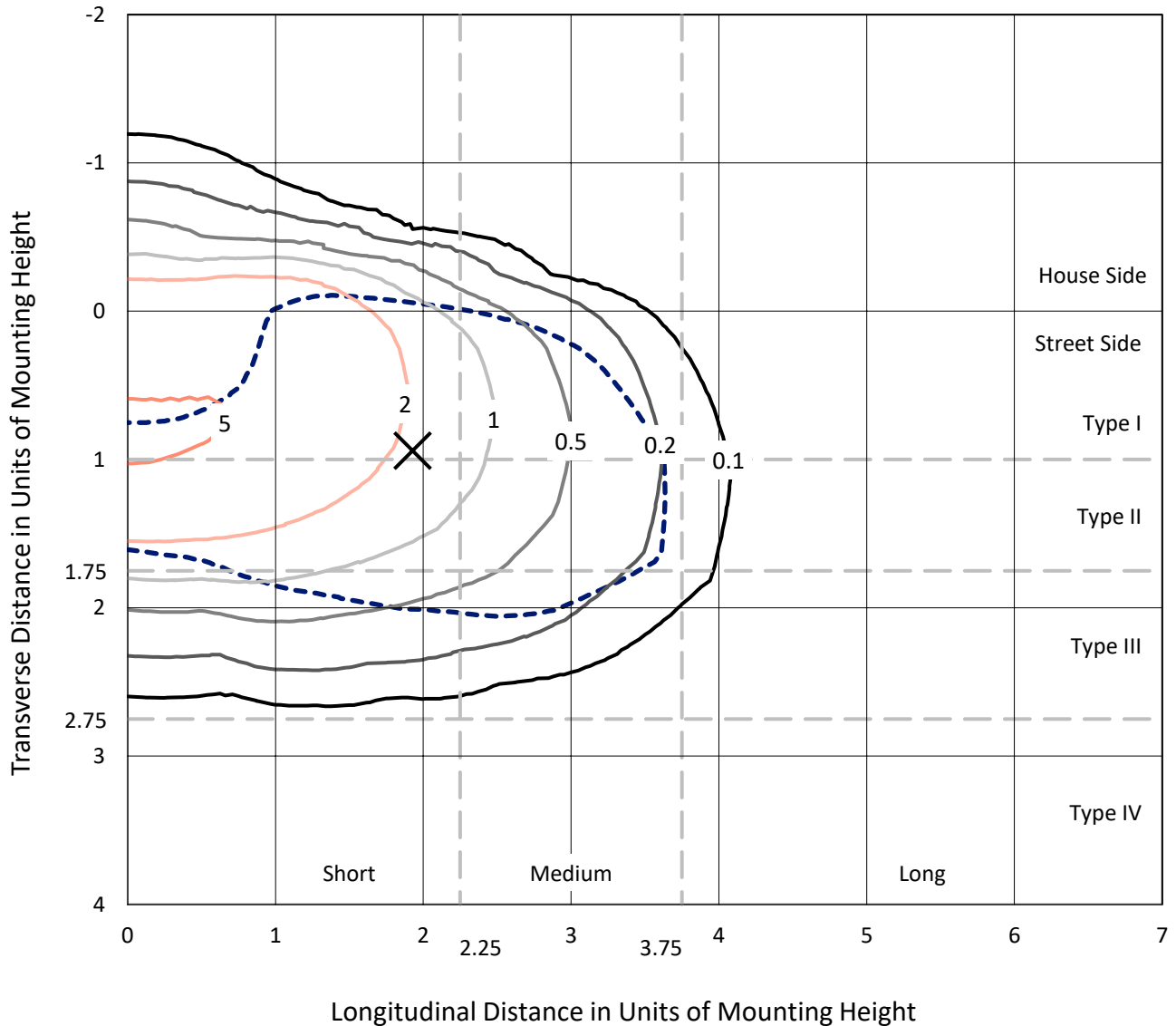
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

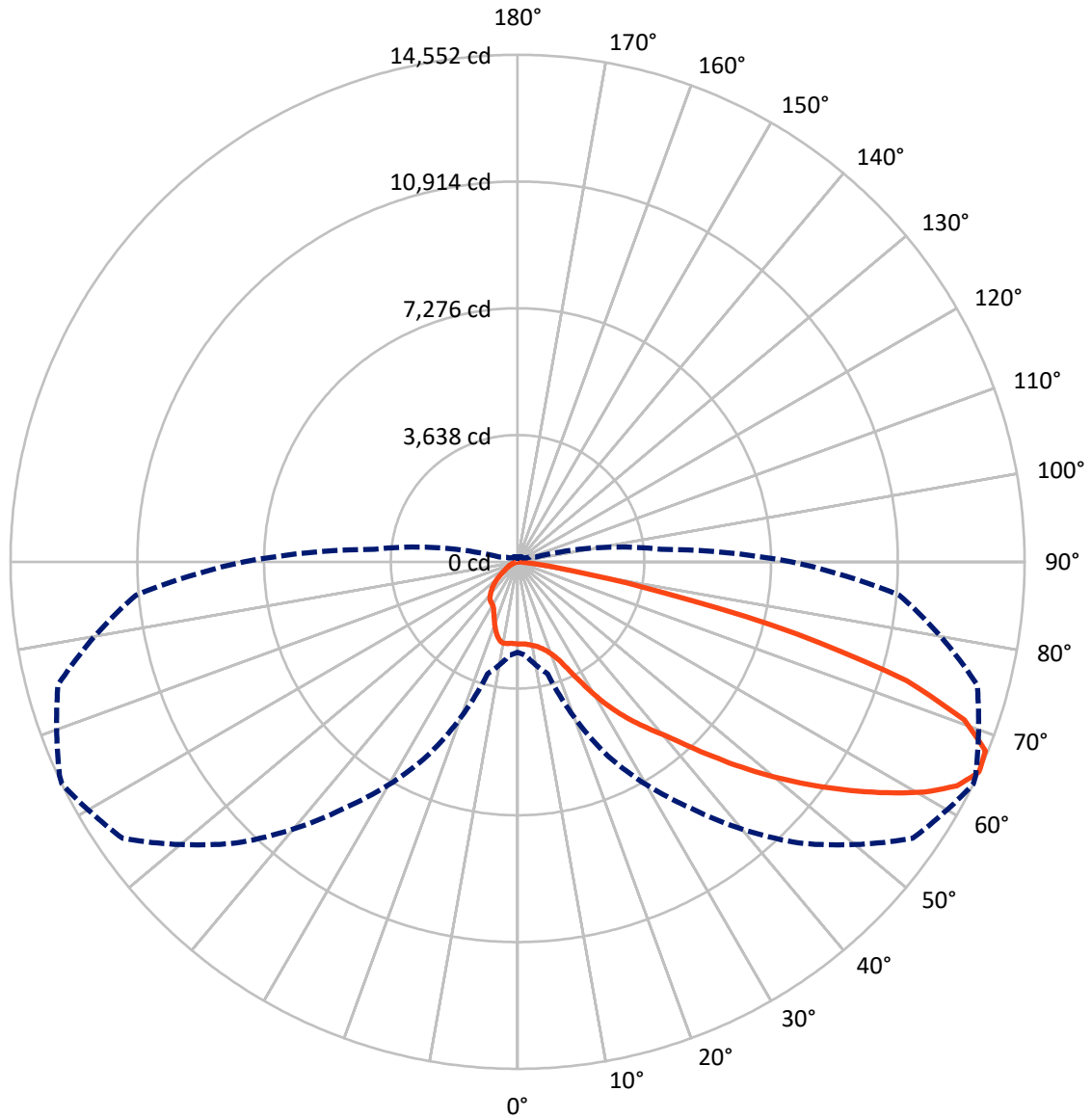
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	2711.5	0.0	2711.5
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	17564.1	0.0	17564.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	20275.5	0.0	20275.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.6	1.1
10°-20°	590.1	2.9
20°-30°	1118.2	5.5
30°-40°	2262.8	11.2
40°-50°	3854.6	19.0
50°-60°	5242.0	25.9
60°-70°	4922.5	24.3
70°-80°	1972.2	9.7
80°-90°	95.6	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°	20275.5	100.0
0°-180°	20275.5	100.0

**Coefficient of Utilization**



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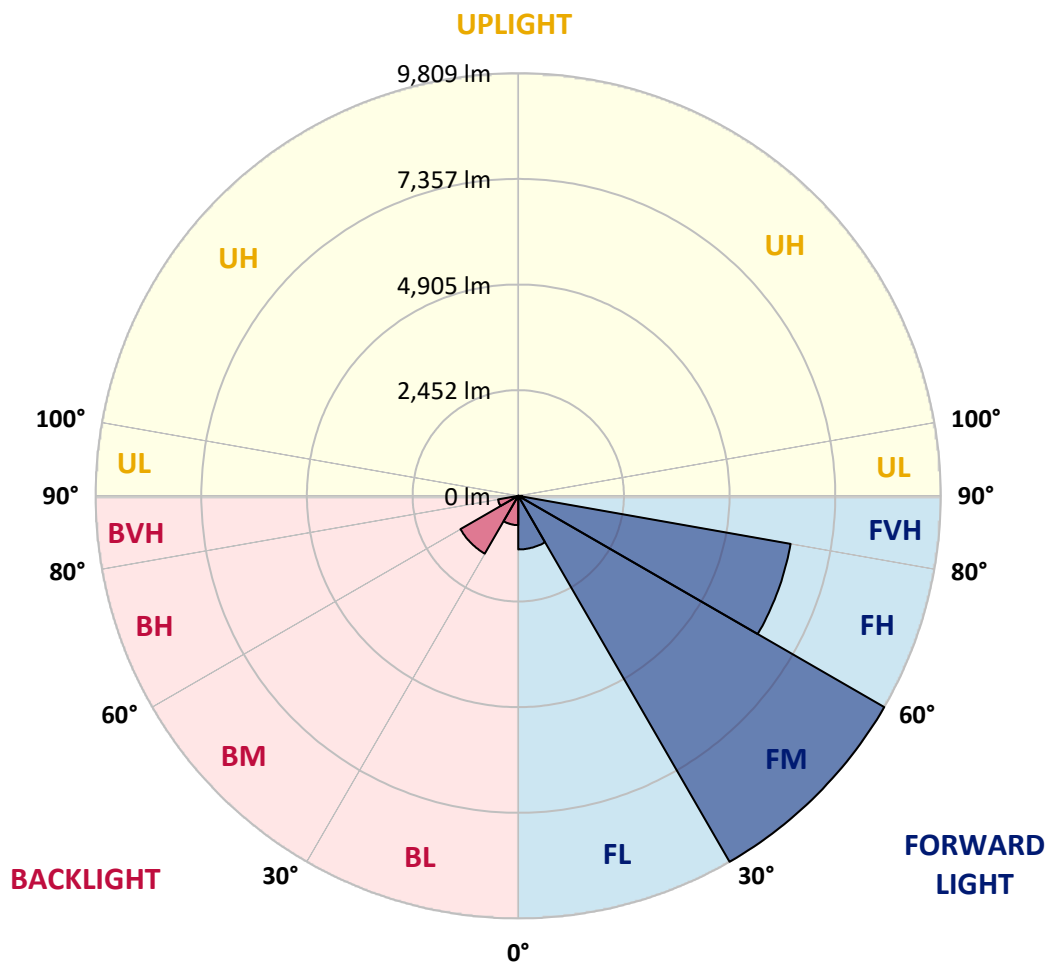
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.2	6.1			
FM (30°-60°)	9809.3	48.4			
FH (60°-80°)	6418.8	31.7			G3/7500
FVH (80°-90°)	90.9	0.4			G1/100
BL (0°-30°)	680.8	3.4	B2/1000		
BM (30°-60°)	1550.1	7.6	B2/2500		
BH (60°-80°)	475.9	2.3	B1/500		G1/500
BVH (80°-90°)	4.7	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-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2
2.5°	2350.1	2366.4	2362.3	2358.2	2356.9	2359.7	2361.0	2359.7	2359.7	2359.7	2361.0
5°	2305.2	2318.9	2318.9	2328.4	2341.9	2358.2	2370.5	2373.2	2376.0	2380.0	2378.6
7.5°	2219.6	2230.5	2238.6	2269.9	2303.9	2347.4	2384.0	2403.1	2405.8	2420.7	2426.2
10°	2161.2	2174.7	2188.4	2221.0	2269.9	2335.2	2397.7	2443.9	2450.7	2486.0	2502.3
12.5°	2158.4	2172.1	2189.7	2225.1	2282.2	2351.5	2427.6	2494.1	2506.4	2558.1	2592.0
15°	2187.0	2203.3	2219.6	2263.1	2324.3	2408.5	2490.1	2573.1	2585.3	2658.6	2695.3
17.5°	2245.5	2267.2	2279.4	2323.0	2388.1	2481.9	2589.4	2684.5	2695.3	2780.9	2827.2
20°	2361.0	2386.8	2390.9	2426.2	2490.1	2590.7	2718.4	2836.7	2850.3	2948.2	2999.8
22.5°	2600.2	2636.9	2604.3	2622.0	2679.0	2779.6	2918.3	3067.7	3086.8	3198.2	3244.4
25°	3021.6	3073.2	2988.9	2959.1	2983.5	3088.1	3262.2	3451.1	3472.8	3562.5	3585.7
27.5°	3849.3	3782.8	3654.9	3529.9	3456.5	3516.3	3712.0	3945.8	3973.0	4060.0	4032.9
30°	4758.7	4700.2	4527.5	4250.3	4076.3	4066.8	4247.6	4508.6	4539.8	4622.8	4539.8
32.5°	5669.3	5613.6	5426.0	5084.8	4783.1	4633.6	4758.7	5048.1	5064.4	5117.5	4995.1
35°	6565.0	6507.9	6320.4	5971.0	5600.0	5260.2	5235.7	5562.0	5567.4	5623.2	5441.0
37.5°	7466.2	7418.6	7218.9	6876.3	6510.7	6041.8	5814.7	6048.5	6055.4	6109.7	5920.8
40°	8109.1	8129.5	7992.2	7727.2	7413.2	6900.8	6464.5	6566.5	6525.7	6616.7	6503.9
42.5°	8660.9	8701.7	8582.1	8449.0	8266.8	7815.5	7269.1	7251.5	7186.2	7235.2	7118.2
45°	9138.1	9172.0	9064.7	9033.4	9029.3	8712.6	8148.5	8042.6	7951.4	7941.9	7802.0
47.5°	9313.4	9378.6	9424.9	9529.5	9733.4	9600.2	9057.8	8893.4	8791.4	8716.7	8495.2
50°	9380.0	9449.4	9607.0	9911.4	10394.0	10451.1	9963.1	9778.3	9653.2	9517.3	9191.1
52.5°	9290.3	9414.0	9626.0	10138.5	10838.5	11133.4	10831.7	10669.9	10527.2	10305.7	9821.8
55°	8761.6	8885.2	9318.9	10135.7	11060.1	11611.8	11652.6	11580.6	11420.2	11070.9	10331.5
57.5°	7647.0	7830.5	8516.9	9790.5	11056.0	12023.7	12457.3	12508.9	12329.5	11829.3	10732.5
60°	6103.0	6351.6	7188.9	9025.2	10714.7	12246.6	13162.7	13420.9	13230.7	12576.9	11057.3
62.5°	4258.5	4546.6	5339.0	7826.4	9934.6	12086.2	13677.9	14154.9	14010.9	13245.7	11182.3
65°	2597.5	2689.9	3328.8	6158.6	8607.9	11414.8	13836.9	14551.8	14504.3	13654.7	10997.5
67.5°	1730.3	1807.8	1991.3	4223.1	6682.0	10073.2	13456.3	14482.5	14496.2	13588.1	10320.6
70°	1042.5	1109.2	1228.8	2456.1	4330.5	7973.2	12277.9	13599.1	13677.9	12697.9	9037.5
72.5°	429.5	474.4	583.1	1113.3	2242.7	5060.4	9776.9	11675.8	11859.2	10676.7	6936.1
75°	243.3	266.4	342.6	558.6	973.2	2358.2	5922.1	8288.6	8559.1	7358.9	4172.8
77.5°	161.7	172.6	221.5	361.5	547.8	804.6	2530.8	4318.2	4834.7	4019.2	1806.5
80°	108.8	118.3	152.2	241.9	356.1	345.2	806.1	1599.8	1968.2	1381.0	440.3
82.5°	73.4	74.7	108.8	159.1	225.6	167.2	237.9	497.4	625.2	399.6	167.2
85°	42.1	40.8	80.2	92.5	100.6	69.3	72.1	149.5	195.8	168.5	95.1
87.5°	5.4	8.2	31.3	24.5	13.6	15.0	15.0	25.8	38.0	40.8	20.4
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°	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2	2358.2
2.5°	2361.0	2359.7	2355.6	2351.5	2341.9	2336.5	2339.3	2336.5	2335.2	2336.5	2341.9
5°	2378.6	2374.5	2363.6	2350.1	2331.1	2308.0	2293.0	2271.3	2250.9	2238.6	2241.4
7.5°	2426.2	2422.2	2407.2	2369.1	2308.0	2211.4	2123.1	2045.6	1987.2	1953.2	1954.6
10°	2502.3	2495.6	2472.4	2388.1	2227.7	2017.1	1841.7	1696.3	1601.2	1556.4	1552.3
12.5°	2592.0	2583.9	2543.1	2370.5	2075.5	1746.6	1504.7	1343.0	1254.6	1215.1	1211.0
15°	2698.1	2687.1	2607.0	2286.3	1854.0	1447.6	1226.0	1105.1	1048.0	1012.6	1014.0
17.5°	2829.9	2810.9	2654.5	2159.8	1613.4	1219.2	1054.7	963.7	913.4	879.4	876.7
20°	3001.2	2969.9	2692.6	2008.9	1391.8	1075.1	939.2	863.2	825.0	795.2	789.7
22.5°	3240.4	3195.5	2738.8	1845.8	1235.5	975.9	853.6	797.9	766.6	732.7	727.1
25°	3536.7	3483.7	2795.9	1694.9	1128.1	890.3	791.1	744.9	708.2	668.7	664.6
27.5°	3951.3	3856.2	2863.8	1571.2	1035.8	816.9	734.0	682.3	640.2	607.6	600.8
30°	4413.4	4257.1	2923.7	1496.5	951.5	749.0	659.2	607.6	568.2	545.1	541.0
32.5°	4851.1	4639.0	2963.1	1463.9	875.4	671.5	577.7	521.9	492.0	485.2	489.3
35°	5264.3	4984.3	2959.1	1432.6	807.4	594.0	497.4	440.3	417.3	421.4	421.4
37.5°	5740.0	5352.7	2930.5	1383.6	751.6	523.3	428.1	377.8	357.5	358.9	364.3
40°	6293.2	5778.0	2912.8	1291.3	690.4	458.1	371.0	330.3	315.3	309.9	308.5
42.5°	6883.1	6189.9	2915.5	1186.6	614.4	399.6	331.7	297.7	284.0	280.0	278.6
45°	7475.7	6582.8	2919.6	1077.9	534.1	354.8	303.1	274.6	266.4	261.0	261.0
47.5°	8033.0	6917.1	2843.5	960.9	455.3	320.8	280.0	261.0	254.2	247.3	247.3
50°	8552.2	7140.0	2660.0	825.0	392.8	293.6	262.3	248.8	241.9	235.1	235.1
52.5°	8955.9	7175.3	2356.9	685.0	349.3	273.2	251.4	239.2	231.0	224.3	222.9
55°	9135.3	6953.8	1926.0	554.5	315.3	255.5	240.6	228.4	218.8	212.1	210.6
57.5°	9089.1	6487.5	1501.9	445.9	282.7	237.9	227.0	218.8	208.0	197.1	195.8
60°	8862.2	5863.7	1132.2	371.0	252.8	218.8	212.1	205.2	190.3	173.9	171.3
62.5°	8469.4	5079.4	807.4	307.2	220.2	197.1	194.3	188.9	167.2	137.2	134.6
65°	7868.5	4126.6	543.7	255.5	188.9	172.6	173.9	164.5	135.9	102.0	99.2
67.5°	6990.5	3017.5	348.0	209.3	157.6	144.1	145.4	140.0	115.5	87.0	82.9
70°	5871.8	1998.0	227.0	159.1	126.4	111.4	119.6	121.0	97.9	70.7	68.0
72.5°	4304.7	1179.8	159.1	118.3	92.5	77.5	97.9	100.6	78.8	53.0	50.3
75°	2453.4	560.0	119.6	85.6	57.1	54.3	76.2	76.2	54.3	35.4	32.6
77.5°	1030.3	233.8	84.3	55.8	32.6	31.3	51.7	47.6	27.2	16.3	16.3
80°	297.7	104.7	44.9	27.2	13.6	12.2	20.4	15.0	6.8	2.8	2.8
82.5°	116.8	46.2	17.6	10.9	5.4	5.4	2.8	0.0	0.0	0.0	0.0
85°	69.3	19.1	8.2	4.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.6	4.1	2.8	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)