

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: P883076

Luminaire Tested: **NAV-SB3B-730-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-730-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12141 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

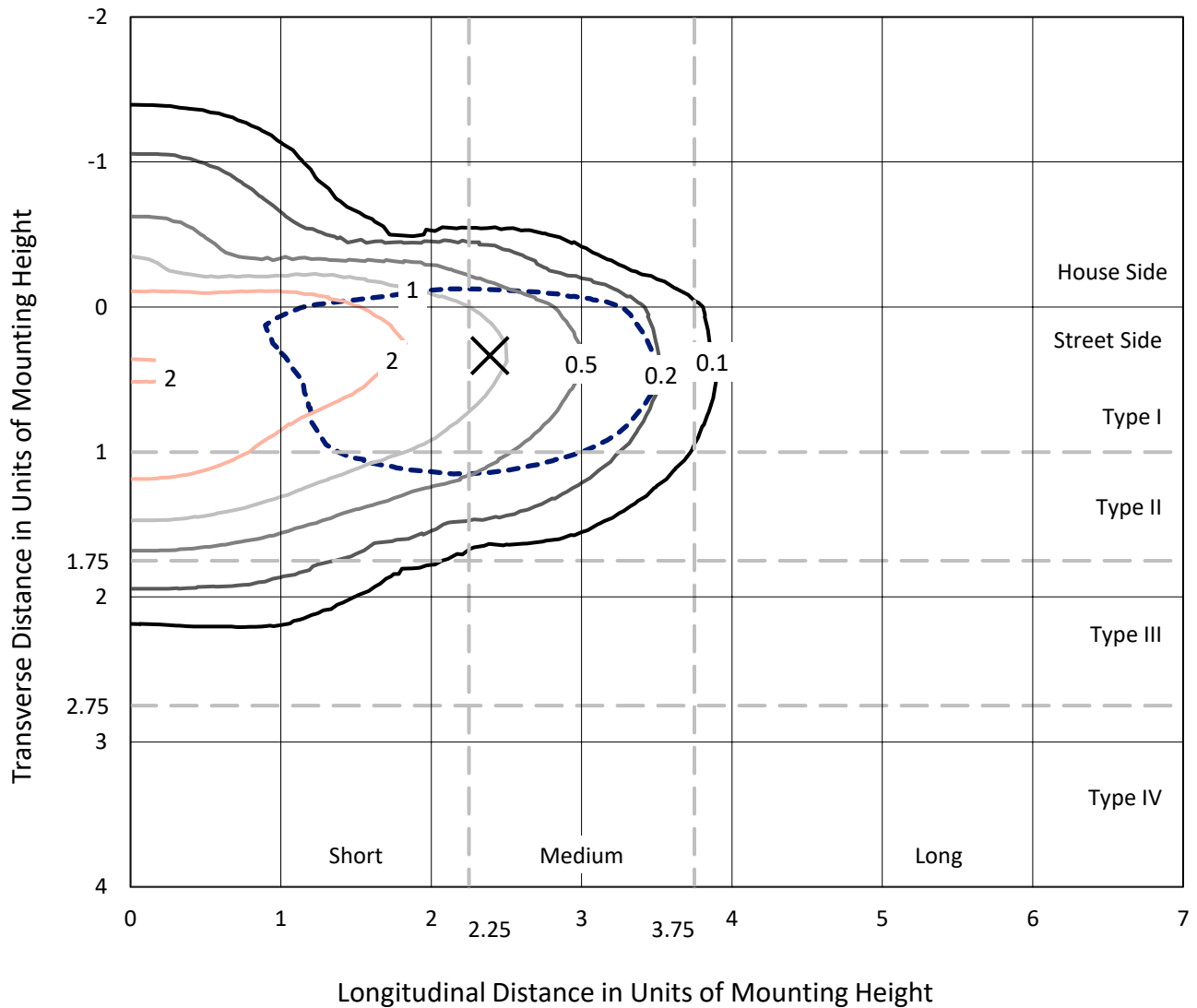
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

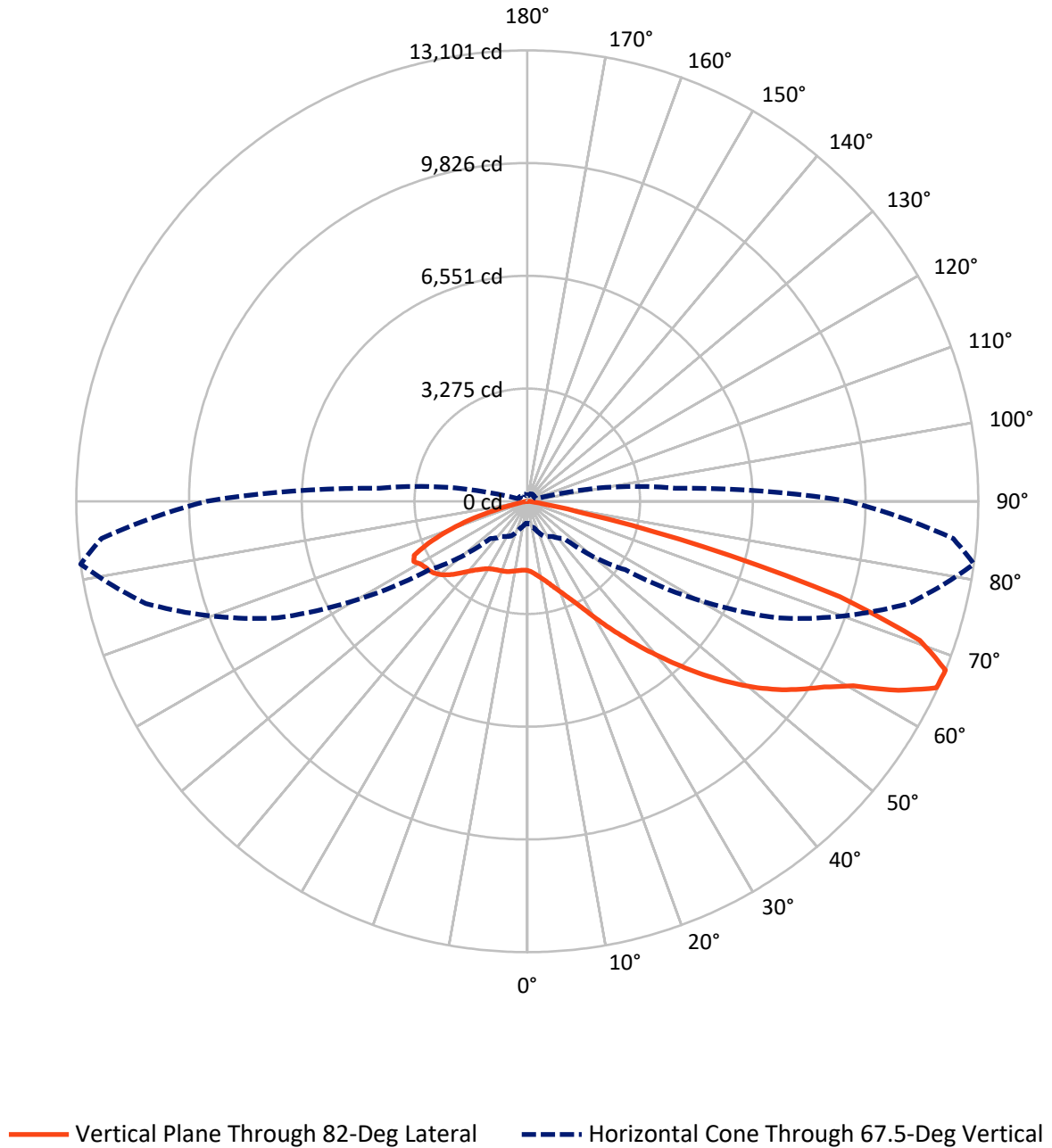
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2199.2	0.0	2199.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9941.8	0.0	9941.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	12141.0	0.0	12141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	1.5
10°-20°	465.7	3.8
20°-30°	745.8	6.1
30°-40°	1318.9	10.9
40°-50°	2310.8	19.0
50°-60°	3081.9	25.4
60°-70°	2869.1	23.6
70°-80°	1101.2	9.1
80°-90°	68.4	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°	12141.0	100.0
0°-180°	12141.0	100.0

Coefficient of Utilization



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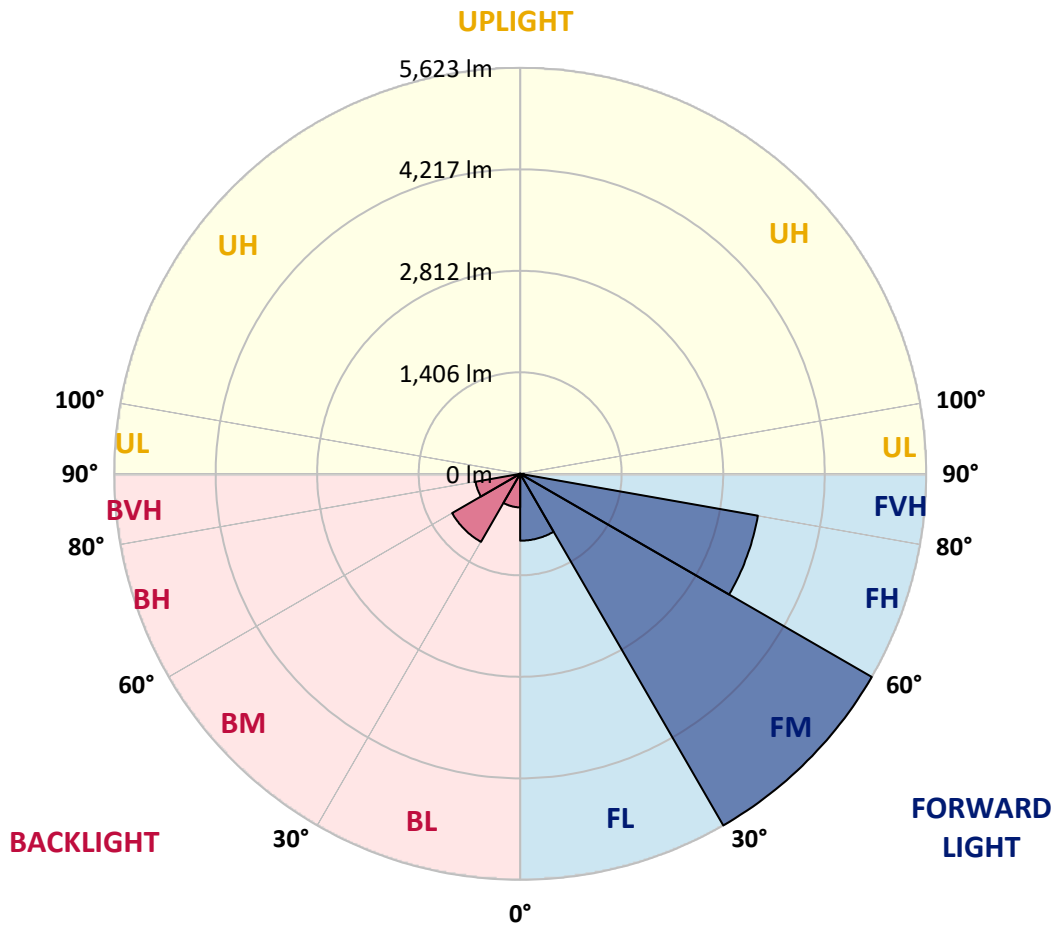
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	926.2	7.6			
FM (30°-60°)	5623.2	46.3			
FH (60°-80°)	3342.6	27.5			G2/5000
FVH (80°-90°)	49.7	0.4			G1/100
BL (0°-30°)	464.5	3.8	B1/500		
BM (30°-60°)	1088.4	9.0	B2/2500		
BH (60°-80°)	627.7	5.2	B2/1000		G2/1000
BVH (80°-90°)	18.7	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°	2011.4	2011.4	2011.4	2011.4	2011.4	2011.4	2011.4	2011.4	2011.4	2011.4	2011.4
2.5°	2125.9	2138.1	2131.1	2127.6	2121.5	2112.8	2105.8	2083.9	2061.2	2046.3	2041.1
5°	2168.7	2180.9	2180.1	2183.6	2187.9	2190.5	2188.8	2164.3	2132.0	2106.6	2091.8
7.5°	2132.0	2146.0	2157.3	2174.8	2205.4	2237.8	2253.5	2248.2	2215.0	2180.1	2161.7
10°	2028.0	2042.8	2069.9	2111.0	2175.7	2245.6	2304.2	2331.3	2310.3	2271.8	2246.5
12.5°	1837.4	1852.3	1905.6	1994.7	2103.1	2224.6	2336.5	2409.1	2414.3	2375.9	2346.1
15°	1623.2	1638.1	1694.9	1806.8	1972.0	2166.9	2354.0	2491.2	2537.6	2504.4	2468.5
17.5°	1490.4	1503.5	1546.3	1636.4	1808.6	2051.6	2347.9	2578.7	2684.4	2658.2	2615.4
20°	1450.2	1461.5	1481.6	1544.6	1687.9	1931.8	2307.7	2660.8	2842.6	2827.8	2779.7
22.5°	1493.0	1503.5	1509.6	1537.6	1627.6	1853.1	2257.0	2744.7	3026.2	3028.0	2969.4
25°	1591.8	1602.3	1595.3	1612.8	1652.1	1828.7	2237.8	2843.5	3257.0	3276.2	3209.8
27.5°	1754.4	1755.2	1738.6	1737.8	1743.9	1865.4	2257.9	2949.3	3548.1	3583.9	3501.7
30°	2080.4	2067.3	2003.5	1934.4	1903.0	1975.5	2313.8	3074.3	3891.6	3955.4	3852.3
32.5°	2583.0	2563.8	2446.7	2281.5	2115.4	2153.0	2414.3	3216.8	4265.7	4381.1	4255.2
35°	3128.5	3123.2	3000.9	2755.2	2465.0	2405.6	2577.8	3403.8	4673.9	4857.5	4708.0
37.5°	3635.5	3632.8	3562.9	3273.6	2920.4	2757.9	2840.0	3648.6	5111.0	5376.7	5200.1
40°	4098.8	4106.6	4036.7	3778.0	3422.2	3209.8	3196.7	3951.0	5597.0	5942.3	5732.5
42.5°	4499.1	4507.8	4437.0	4245.6	3917.8	3709.8	3634.6	4321.7	6071.6	6549.8	6301.5
45°	4771.0	4825.1	4814.7	4661.7	4426.5	4210.6	4160.8	4786.7	6612.7	7194.0	6902.9
47.5°	4847.9	4897.7	4976.4	4997.4	4854.0	4641.6	4701.0	5347.0	7159.9	7839.1	7507.8
50°	4658.2	4704.5	4868.0	5085.6	5185.3	5119.7	5226.4	5947.5	7720.2	8482.5	8101.4
52.5°	4284.1	4331.3	4537.6	4882.0	5288.4	5494.7	5753.5	6539.3	8263.1	9091.7	8663.4
55°	3743.0	3792.8	4057.7	4447.5	5091.8	5649.4	6193.1	7130.2	8760.4	9639.8	9170.4
57.5°	3007.0	3043.7	3319.0	3864.5	4597.0	5495.6	6517.4	7775.3	9229.0	10178.3	9673.0
60°	1959.8	1992.1	2312.1	2920.4	3777.1	4981.6	6582.1	8494.7	9851.3	10878.4	10350.5
62.5°	1303.3	1325.2	1514.9	1961.5	2660.0	3994.7	6203.6	9069.0	10763.9	12097.0	11512.2
65°	894.2	916.1	1105.8	1417.0	1718.5	2642.5	5115.4	8993.0	11590.8	13064.6	12373.2
67.5°	638.1	656.5	817.3	1111.0	1243.9	1535.0	3467.6	8020.9	11472.0	13101.3	12419.5
70°	457.2	467.7	600.5	865.4	988.6	922.2	1928.3	6134.6	10044.5	12097.8	11473.7
72.5°	319.9	323.4	417.0	659.1	796.3	673.1	917.8	4090.0	7597.0	9495.6	8895.1
75°	216.8	221.2	280.6	483.4	639.0	514.0	486.0	2193.2	4459.8	5256.1	4711.5
77.5°	132.9	134.6	180.9	330.4	478.1	391.6	312.9	929.2	1725.5	1694.0	1444.0
80°	75.2	75.2	115.4	205.4	326.0	252.6	219.4	395.1	546.3	479.9	423.1
82.5°	42.0	42.8	83.9	127.6	215.9	149.5	120.6	182.7	236.0	208.9	181.8
85°	17.5	19.2	51.6	60.3	103.1	74.3	49.0	76.9	87.4	77.8	56.8
87.5°	1.7	2.6	15.7	11.4	12.2	14.9	7.0	14.9	12.2	12.2	8.7
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°	2011.4	2011.4	2011.4	2011.4	2011.4	2011.4	2011.4	2011.4	2011.4	2011.4	2011.4
2.5°	2024.5	2011.4	1978.1	1939.7	1889.0	1864.5	1831.3	1808.6	1789.3	1791.1	1773.6
5°	2063.8	2030.6	1956.3	1863.6	1748.2	1666.1	1578.7	1518.3	1469.4	1458.9	1435.3
7.5°	2118.0	2065.5	1935.3	1768.3	1573.4	1425.7	1293.7	1208.9	1148.6	1129.4	1110.1
10°	2187.9	2111.9	1908.2	1648.6	1368.0	1180.1	1038.5	972.0	930.9	917.0	906.5
12.5°	2269.2	2165.2	1872.4	1502.6	1156.5	975.5	885.5	852.3	839.2	834.8	832.2
15°	2371.5	2231.6	1818.2	1329.5	977.3	850.5	812.1	807.7	809.4	807.7	806.8
17.5°	2493.0	2304.2	1729.9	1151.2	856.6	786.7	772.7	776.2	780.6	779.7	778.0
20°	2625.9	2375.9	1617.1	993.0	774.5	741.3	733.4	736.9	740.4	738.6	737.8
22.5°	2777.1	2452.8	1492.1	869.8	719.4	699.3	690.6	691.4	691.4	687.9	686.2
25°	2958.0	2537.6	1361.0	782.3	677.4	661.7	651.2	647.7	642.5	632.0	630.2
27.5°	3173.9	2627.6	1235.1	721.1	644.2	629.4	617.1	608.4	595.3	577.8	576.0
30°	3416.9	2736.9	1128.5	682.7	618.0	603.1	589.2	576.0	556.8	535.0	533.2
32.5°	3702.8	2854.0	1050.7	657.3	594.4	578.7	562.1	546.3	525.3	503.5	504.4
35°	4043.7	2995.6	1005.2	639.9	576.0	555.1	536.7	519.2	503.5	484.3	482.5
37.5°	4413.4	3146.0	991.3	631.1	563.8	531.5	510.5	498.2	496.5	485.1	484.3
40°	4818.2	3324.3	1001.7	625.9	550.7	508.7	486.0	483.4	487.8	467.7	468.5
42.5°	5246.5	3535.8	1019.2	619.8	532.3	486.0	464.2	464.2	460.7	432.7	432.7
45°	5709.8	3779.7	1036.7	604.9	510.5	463.3	446.7	440.6	425.7	398.6	397.7
47.5°	6176.5	4028.0	1049.8	577.8	484.3	444.1	429.2	415.2	393.4	368.9	368.0
50°	6619.7	4250.9	1035.8	537.6	454.5	425.7	410.0	390.7	367.1	350.5	347.9
52.5°	7015.7	4444.0	976.4	490.4	423.1	406.5	392.5	372.4	353.1	335.7	333.9
55°	7360.1	4600.5	871.5	445.8	395.1	389.9	375.9	350.5	324.3	309.4	307.7
57.5°	7690.5	4719.4	740.4	409.1	369.8	371.5	350.5	327.8	303.3	287.6	285.8
60°	8130.2	4878.5	607.5	375.0	342.7	347.9	325.2	308.6	278.0	257.9	255.2
62.5°	8833.0	5125.8	482.5	333.0	311.2	312.9	303.3	283.2	246.5	222.9	221.2
65°	9390.7	5034.9	380.2	287.6	275.3	278.0	278.0	256.1	216.8	189.7	187.1
67.5°	9327.7	4311.2	303.3	243.0	241.3	243.0	249.1	230.8	192.3	170.5	167.0
70°	8592.6	3429.2	243.0	201.9	209.8	205.4	222.9	210.7	173.1	151.2	148.6
72.5°	7011.3	2470.3	185.3	167.0	160.8	167.8	201.0	189.7	144.2	119.8	117.1
75°	4097.0	1318.2	138.1	132.0	116.3	139.9	178.3	161.7	110.1	88.3	85.7
77.5°	1333.9	459.8	101.4	97.0	86.5	112.8	152.1	136.4	90.0	69.9	67.3
80°	357.5	139.0	69.1	63.8	55.9	83.9	120.6	108.4	64.7	45.5	44.6
82.5°	143.4	58.6	40.2	35.8	30.6	57.7	95.3	87.4	48.1	28.8	28.8
85°	46.3	19.2	14.9	11.4	14.0	35.8	56.8	59.4	34.1	14.9	11.4
87.5°	6.1	2.6	2.6	3.5	2.6	6.1	17.5	16.6	9.6	1.7	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)