

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: P959887

Luminaire Tested: **NAV-SB1B-750-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-750-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

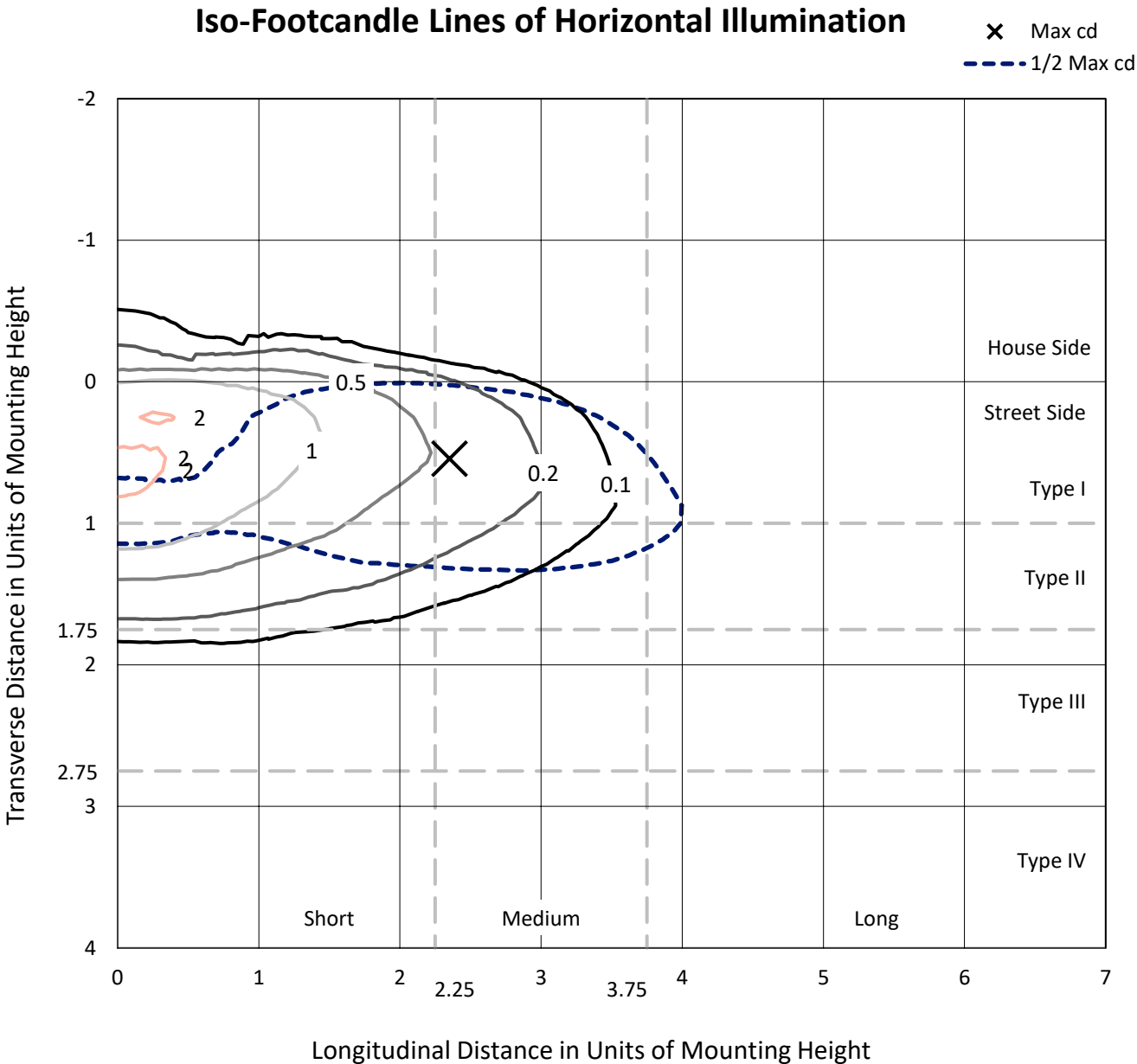
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5172.1 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 39.8
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



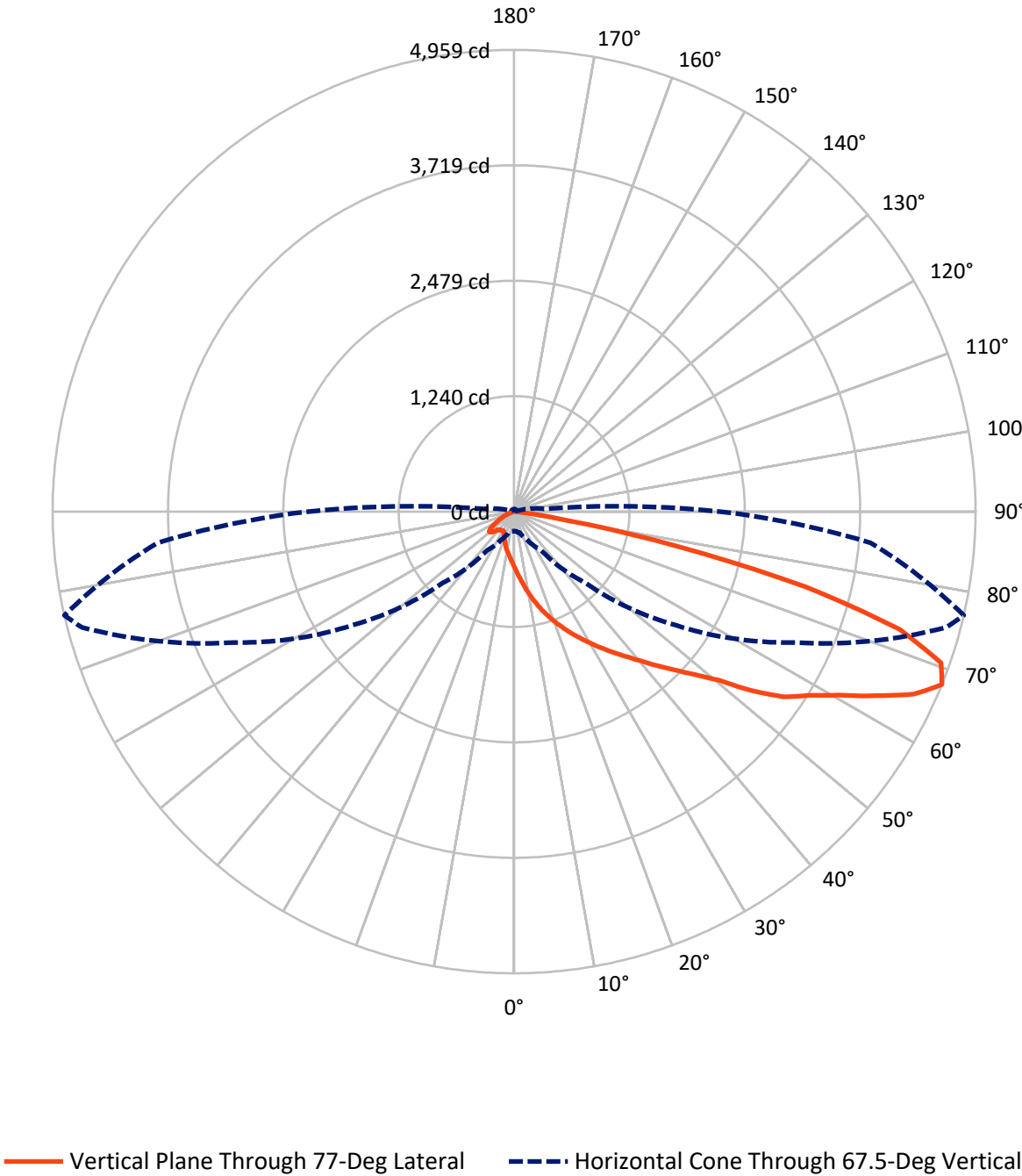
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Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	380.5	0.0	380.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	4791.6	0.0	4791.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	5172.1	0.0	5172.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	1.2
10°-20°	213.2	4.1
20°-30°	411.4	8.0
30°-40°	714.2	13.8
40°-50°	1036.9	20.0
50°-60°	1190.8	23.0
60°-70°	1033.8	20.0
70°-80°	486.9	9.4
80°-90°	24.1	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°	5172.1	100.0
0°-180°	5172.1	100.0

Coefficient of Utilization



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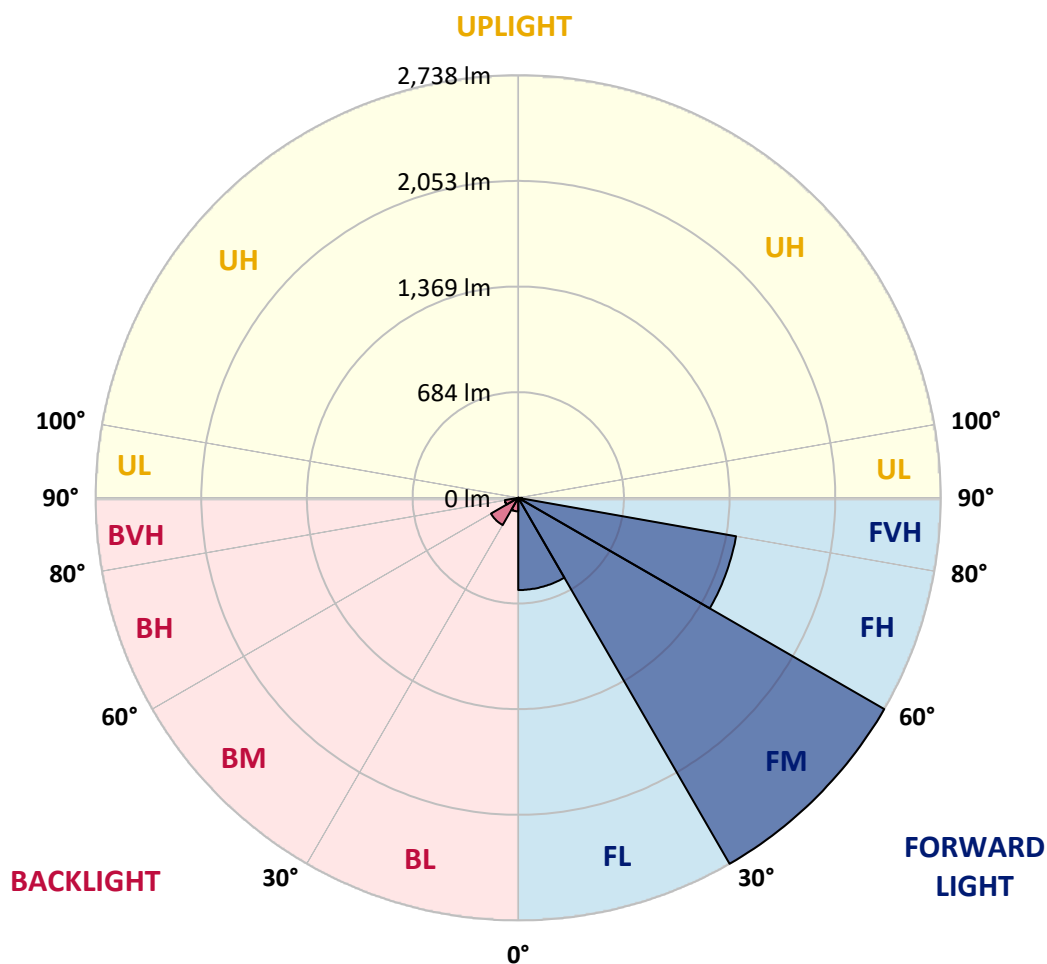
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	597.3	11.5			
FM	(30°-60°)	2738.0	52.9			
FH	(60°-80°)	1432.7	27.7			G1/1800
FVH	(80°-90°)	23.6	0.5			G1/100
BL	(0°-30°)	88.1	1.7	B0/110		
BM	(30°-60°)	203.9	3.9	B0/220		
BH	(60°-80°)	88.1	1.7	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4
2.5°	825.7	830.9	823.5	809.3	788.1	774.4	740.7	708.8	673.5	662.3	626.9
5°	1006.6	1011.1	1002.8	987.3	959.0	932.0	887.8	821.2	752.1	730.0	667.4
7.5°	1140.5	1143.1	1139.9	1125.8	1098.7	1068.3	1018.7	940.1	837.6	813.2	717.2
10°	1236.9	1245.2	1244.2	1238.8	1220.8	1196.1	1143.4	1053.8	933.4	901.9	773.4
12.5°	1300.7	1310.1	1315.6	1327.8	1326.8	1311.1	1264.7	1170.0	1028.7	991.8	836.7
15°	1319.4	1329.3	1350.2	1378.5	1403.5	1411.5	1379.1	1284.0	1133.8	1086.5	901.6
17.5°	1308.8	1324.2	1349.3	1393.9	1448.8	1485.1	1481.6	1394.2	1229.2	1175.2	965.1
20°	1332.2	1347.1	1366.6	1404.1	1468.1	1533.9	1560.3	1499.6	1323.9	1267.4	1032.0
22.5°	1462.0	1459.4	1461.3	1467.5	1505.7	1570.9	1625.1	1595.3	1417.7	1359.9	1102.6
25°	1667.6	1656.0	1636.4	1603.3	1593.7	1625.1	1681.7	1680.1	1516.6	1454.6	1174.9
27.5°	1903.3	1901.4	1855.5	1775.8	1730.8	1718.6	1745.6	1762.6	1614.6	1548.4	1247.4
30°	2129.1	2134.3	2072.2	1983.6	1901.1	1853.2	1828.8	1841.0	1714.1	1649.5	1322.2
32.5°	2325.6	2331.1	2263.6	2159.9	2057.8	2000.0	1948.6	1918.4	1822.7	1752.3	1404.5
35°	2491.7	2497.1	2419.7	2305.1	2196.2	2143.9	2085.7	2003.2	1931.9	1866.3	1496.1
37.5°	2640.1	2638.5	2534.7	2419.1	2312.2	2270.7	2240.2	2107.6	2044.3	1981.0	1597.6
40°	2727.7	2734.5	2645.8	2518.3	2414.6	2384.5	2382.5	2237.0	2174.0	2112.7	1708.7
42.5°	2753.5	2765.3	2701.1	2596.4	2502.3	2469.5	2520.0	2377.1	2325.0	2265.2	1834.2
45°	2707.2	2718.7	2689.5	2616.9	2562.0	2540.9	2638.1	2522.2	2486.2	2427.1	1975.9
47.5°	2572.3	2586.8	2593.9	2578.4	2577.8	2599.3	2744.1	2675.0	2677.6	2617.2	2140.0
50°	2311.2	2335.6	2400.4	2455.1	2539.5	2645.5	2847.2	2840.8	2893.5	2841.4	2353.9
52.5°	1836.5	1871.1	2094.7	2244.0	2433.9	2636.8	2960.6	3106.8	3272.1	3196.1	2655.5
55°	1475.8	1475.8	1657.6	1937.0	2227.6	2579.7	3010.1	3279.5	3530.1	3512.1	2867.7
57.5°	1203.1	1217.6	1333.5	1580.6	1929.4	2443.5	3040.6	3388.1	3737.9	3724.6	3075.3
60°	742.5	773.7	992.7	1236.6	1589.8	2201.0	3021.3	3497.9	3990.0	4000.6	3325.1
62.5°	418.2	429.8	527.4	889.7	1236.3	1875.0	2873.9	3559.3	4312.5	4357.4	3582.7
65°	288.7	294.5	332.1	553.7	856.9	1492.8	2585.8	3521.1	4635.6	4726.5	3801.1
67.5°	209.7	212.6	236.1	338.2	508.4	1082.4	2134.3	3328.4	4806.7	4958.6	3842.8
70°	161.2	163.2	180.2	222.2	300.3	668.1	1550.0	2945.2	4682.7	4864.2	3629.0
72.5°	131.0	132.9	146.2	164.4	199.2	395.0	939.4	2391.8	4135.5	4331.3	3089.4
75°	110.5	113.1	124.9	136.8	156.1	253.7	440.6	1665.6	3110.0	3238.4	2148.4
77.5°	61.3	56.5	101.5	113.4	131.7	160.6	206.2	980.2	1741.8	1777.4	953.2
80°	38.2	39.5	80.6	91.2	101.2	81.0	94.4	377.4	603.8	573.6	184.7
82.5°	2.3	5.1	62.0	65.8	69.4	34.6	35.7	128.1	145.4	133.7	32.8
85°	0.0	0.0	28.3	22.8	24.1	9.9	10.2	29.8	19.6	21.2	6.5
87.5°	0.0	0.0	0.0	0.6	0.0	0.9	1.9	2.6	0.9	1.3	2.3
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°	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4	596.4
2.5°	604.4	582.0	536.4	491.7	455.4	421.7	397.6	374.8	363.3	362.6	361.9
5°	622.8	575.5	484.3	403.7	338.9	286.8	253.1	229.0	216.8	212.6	212.0
7.5°	648.4	577.5	438.7	326.7	250.2	205.5	186.2	178.6	176.0	173.1	172.5
10°	680.9	582.0	397.9	263.0	197.2	174.8	167.0	163.8	161.8	159.9	159.3
12.5°	717.2	586.2	357.5	218.4	173.4	161.8	156.4	152.5	150.0	147.7	147.1
15°	752.6	588.8	315.4	187.3	161.2	151.9	146.2	142.0	138.5	135.8	135.5
17.5°	787.5	592.2	275.9	168.6	151.3	142.0	136.2	131.0	128.1	125.3	124.9
20°	826.4	591.6	238.6	155.5	141.3	132.0	125.9	121.1	118.2	115.0	114.7
22.5°	862.3	588.3	205.9	144.2	131.0	122.1	115.3	110.5	107.6	105.1	104.7
25°	903.7	585.8	178.6	134.0	121.4	112.4	105.1	100.6	97.3	95.0	94.7
27.5°	943.6	582.0	158.7	124.6	112.1	103.4	96.4	91.2	88.4	86.7	86.7
30°	982.8	581.0	151.3	115.6	103.7	95.0	88.0	83.2	81.0	80.3	79.9
32.5°	1030.0	583.5	154.5	112.4	96.0	87.3	80.6	77.1	74.8	74.8	74.8
35°	1080.5	582.9	159.3	115.3	90.9	79.6	74.5	72.3	70.0	70.0	70.0
37.5°	1143.7	583.9	163.2	120.1	89.0	73.2	70.3	67.4	66.1	66.1	66.1
40°	1238.1	615.7	161.2	124.3	88.4	68.8	62.9	62.0	61.0	61.0	61.0
42.5°	1353.7	684.7	163.8	124.6	88.0	65.5	57.8	59.8	57.5	57.2	56.9
45°	1480.3	760.2	180.2	117.9	87.6	64.0	55.2	57.5	53.9	53.9	53.9
47.5°	1605.9	835.1	196.9	108.2	86.7	63.6	53.0	51.7	50.7	51.0	51.0
50°	1779.0	896.1	203.3	95.0	84.5	62.9	48.8	49.1	48.5	49.1	49.1
52.5°	1967.5	909.0	195.6	80.3	78.0	61.0	45.9	47.3	46.8	47.6	47.6
55°	2085.1	895.1	161.5	66.8	68.1	53.3	43.0	45.6	45.6	45.6	45.6
57.5°	2206.5	836.3	114.7	54.3	56.5	43.7	40.5	44.0	43.7	43.4	43.4
60°	2293.8	741.3	75.4	44.7	45.0	36.0	37.6	41.4	41.1	39.5	39.5
62.5°	2359.0	636.2	48.5	37.9	34.3	32.4	34.3	37.6	36.3	32.8	32.1
65°	2351.7	490.8	37.2	32.4	28.3	28.3	29.8	32.8	28.9	23.2	22.4
67.5°	2214.5	332.1	30.9	27.3	23.8	23.5	24.7	27.3	24.7	19.6	19.0
70°	1969.4	217.1	24.7	21.2	19.0	17.3	19.9	23.5	20.9	15.8	15.1
72.5°	1598.5	132.3	18.7	15.4	13.8	11.3	15.8	19.3	16.7	11.6	11.0
75°	1034.2	67.4	12.8	9.9	7.4	6.8	11.6	14.5	11.6	7.1	6.1
77.5°	395.6	28.3	7.1	4.5	3.9	3.2	6.5	8.7	4.8	1.6	1.3
80°	76.2	11.9	3.5	2.3	1.9	1.3	0.9	0.6	0.0	0.0	0.0
82.5°	13.1	3.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.0	0.0	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)