

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: P961841

Luminaire Tested: **NAV-SB2B-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-722-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9711.9 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

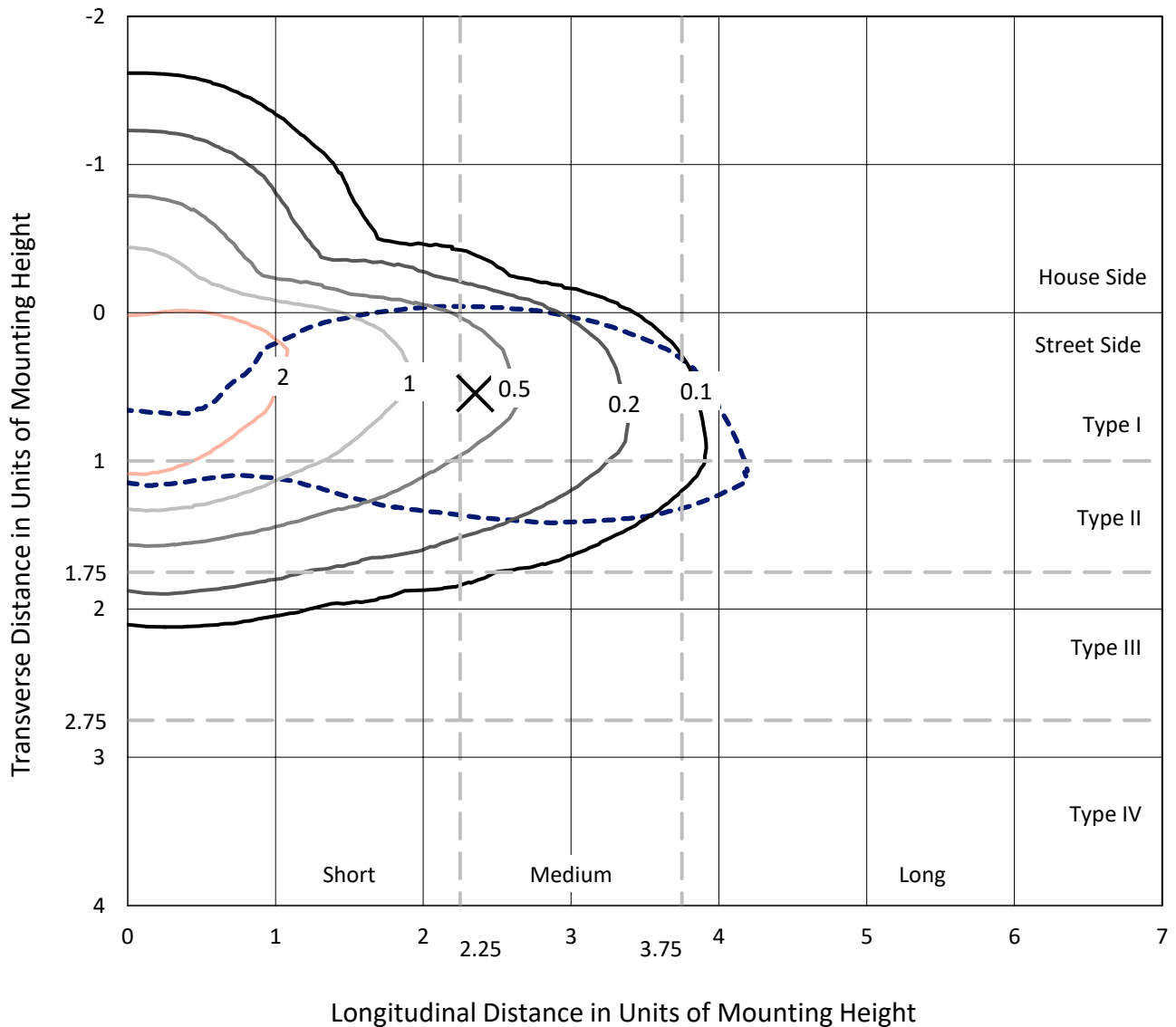
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

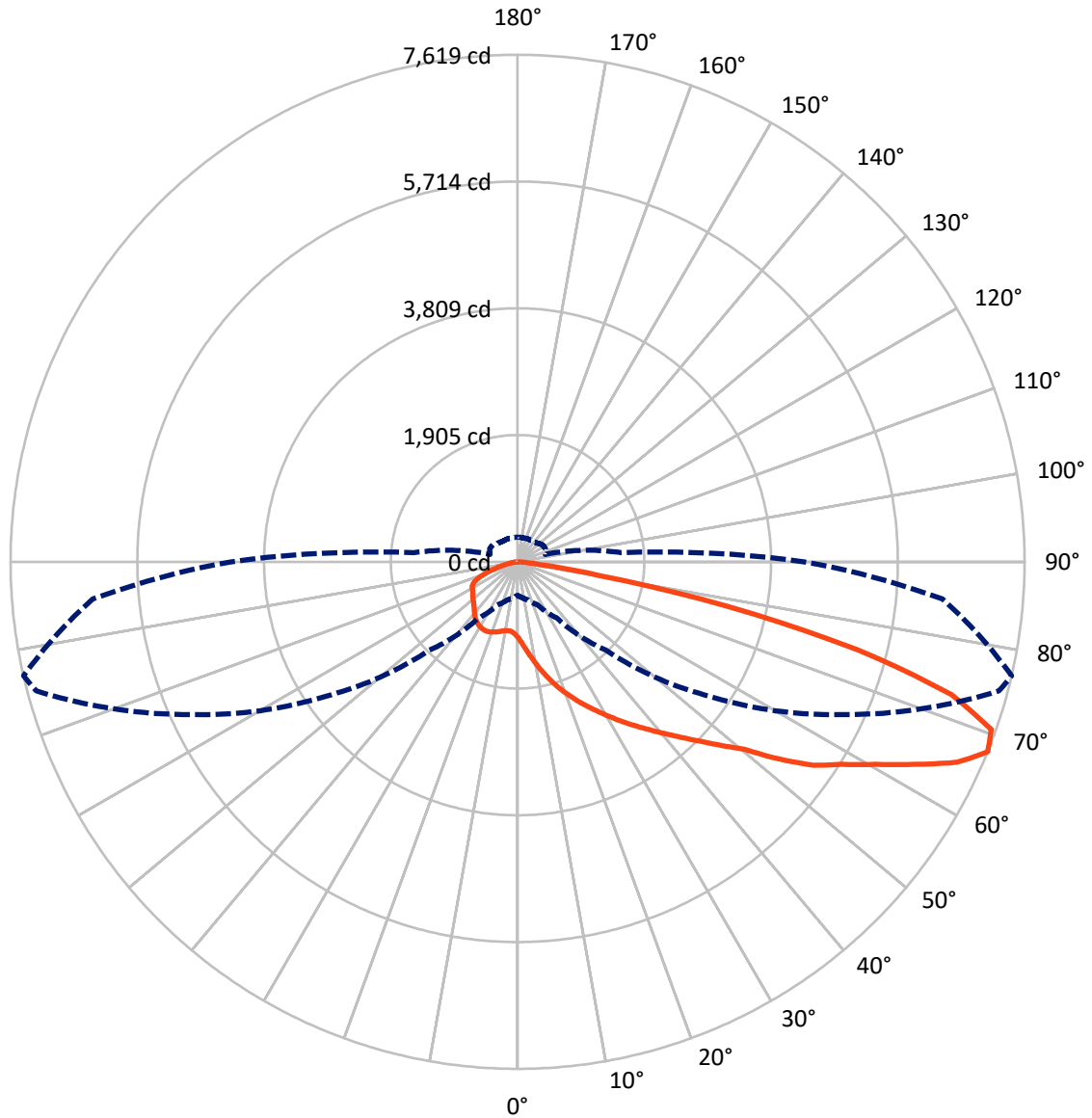
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1837.1	0.0	1837.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	7874.8	0.0	7874.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	9711.9	0.0	9711.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	1.3
10°-20°	438.8	4.5
20°-30°	828.5	8.5
30°-40°	1334.7	13.7
40°-50°	1825.6	18.8
50°-60°	2059.3	21.2
60°-70°	1922.1	19.8
70°-80°	1053.6	10.8
80°-90°	127.1	1.3
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°	9711.9	100.0
0°-180°	9711.9	100.0

Coefficient of Utilization

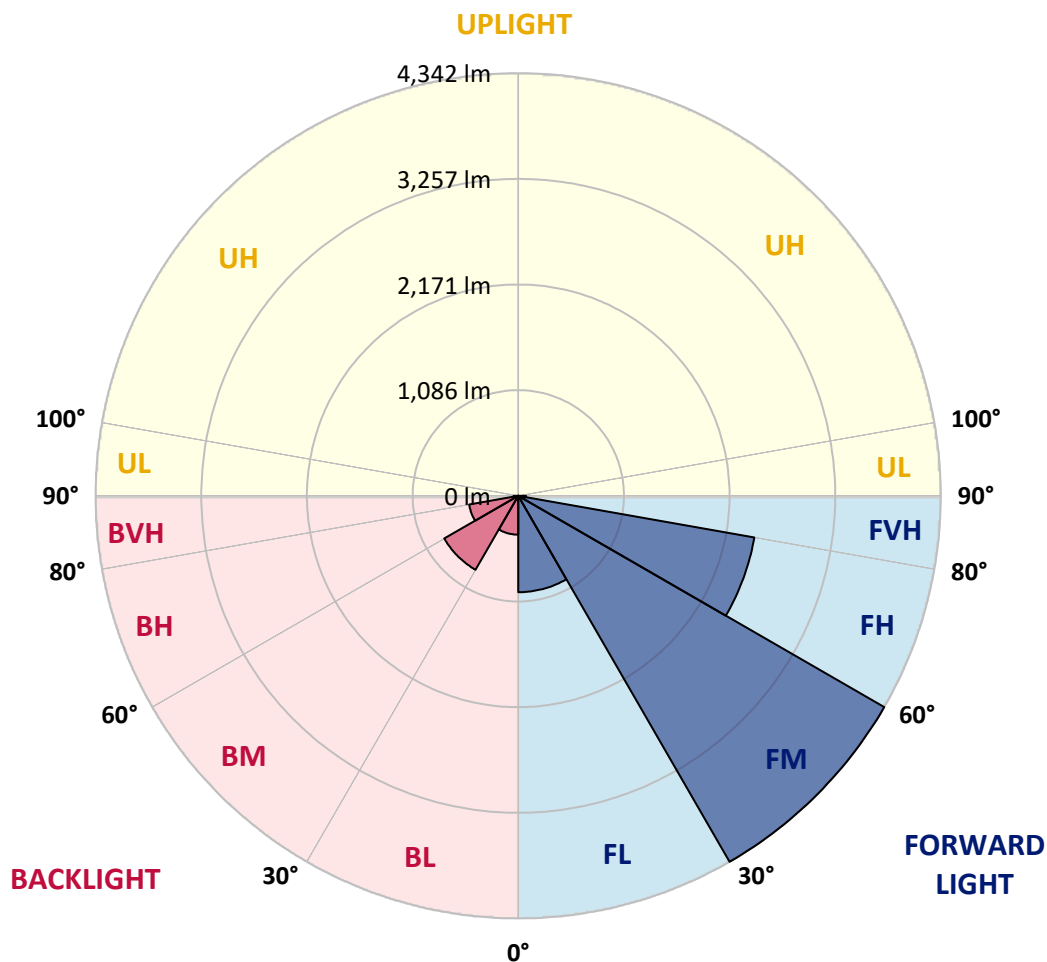


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	990.0	10.2			
FM (30°-60°)	4342.1	44.7			
FH (60°-80°)	2463.2	25.4			G2/5000
FVH (80°-90°)	79.5	0.8			G1/100
BL (0°-30°)	399.4	4.1	B1/500		
BM (30°-60°)	877.5	9.0	B1/1000		
BH (60°-80°)	512.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	47.6	0.5			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°	77°	85°
0°	1139.5	1139.5	1139.5	1139.5	1139.5	1139.5	1139.5	1139.5	1139.5	1139.5	1139.5
2.5°	1426.8	1436.7	1424.2	1424.2	1382.1	1360.1	1317.9	1285.9	1228.3	1218.2	1180.1
5°	1686.4	1698.9	1681.4	1673.9	1624.3	1578.7	1508.0	1438.3	1335.5	1325.0	1235.2
7.5°	1887.4	1903.5	1887.9	1880.0	1835.9	1784.7	1702.0	1604.7	1459.8	1439.3	1309.4
10°	2051.4	2053.9	2048.9	2051.9	2017.3	1975.2	1890.5	1777.1	1596.2	1568.1	1399.2
12.5°	2144.2	2155.7	2165.7	2183.8	2177.7	2151.7	2075.5	1940.1	1740.6	1704.5	1496.9
15°	2187.8	2207.8	2230.4	2272.0	2305.5	2312.1	2254.0	2115.1	1887.4	1843.9	1595.7
17.5°	2203.3	2222.4	2258.0	2318.1	2390.3	2438.9	2412.8	2285.0	2032.9	1982.8	1699.4
20°	2282.1	2287.5	2309.1	2366.2	2444.4	2525.2	2544.7	2448.4	2176.7	2120.1	1806.8
22.5°	2450.5	2439.4	2445.4	2471.5	2527.6	2605.9	2650.4	2592.8	2324.6	2259.4	1915.0
25°	2728.7	2696.6	2664.5	2634.5	2663.1	2707.1	2757.8	2737.3	2479.6	2396.9	2024.4
27.5°	3080.1	3041.0	2970.3	2871.5	2837.0	2852.5	2875.1	2871.0	2622.9	2539.2	2137.1
30°	3426.1	3380.4	3296.2	3153.3	3062.1	3021.0	3004.0	2992.4	2778.9	2689.6	2250.9
32.5°	3702.3	3666.1	3583.4	3423.5	3291.2	3221.0	3164.4	3123.3	2941.7	2852.5	2371.2
35°	3943.9	3910.3	3815.6	3641.1	3497.2	3422.5	3348.4	3260.6	3111.2	3021.0	2500.6
37.5°	4164.5	4130.9	4001.1	3819.6	3674.7	3623.1	3556.9	3408.0	3281.1	3196.0	2637.4
40°	4303.9	4296.3	4175.0	3969.5	3819.0	3793.5	3771.5	3578.9	3469.6	3390.4	2787.9
42.5°	4339.4	4355.9	4259.7	4090.8	3947.4	3926.9	3978.5	3772.4	3681.2	3605.5	2958.3
45°	4253.8	4301.3	4238.2	4123.4	4038.6	4027.6	4162.0	3984.0	3915.3	3846.1	3163.9
47.5°	4036.7	4117.3	4091.3	4075.2	4063.2	4110.9	4323.4	4208.5	4180.6	4120.4	3398.5
50°	3598.5	3751.4	3797.0	3898.3	4014.6	4175.5	4470.3	4453.7	4490.3	4429.6	3684.3
52.5°	2841.0	3051.5	3316.3	3569.9	3865.2	4153.9	4631.7	4805.7	4960.1	4927.0	4138.4
55°	2345.2	2439.9	2643.5	3108.7	3575.4	4063.2	4704.4	5089.9	5426.3	5396.7	4482.8
57.5°	1964.2	2048.9	2174.2	2562.8	3137.3	3857.2	4749.5	5263.4	5745.6	5742.7	4822.7
60°	1555.6	1645.3	1773.7	2048.9	2625.4	3501.2	4739.5	5460.9	6153.2	6178.3	5237.3
62.5°	1094.4	1193.1	1335.5	1592.2	2102.6	3040.0	4534.9	5603.8	6633.0	6701.1	5736.1
65°	719.4	784.5	891.9	1113.5	1566.6	2447.0	4144.4	5622.3	7146.3	7261.6	6204.3
67.5°	504.3	529.4	592.6	712.9	1032.7	1876.5	3522.3	5430.3	7488.8	7618.6	6407.4
70°	393.5	406.1	438.2	486.3	648.7	1261.9	2699.1	4931.0	7415.6	7550.9	6195.3
72.5°	339.9	351.9	364.0	370.0	435.1	779.1	1828.3	4122.9	6726.3	6818.0	5386.7
75°	308.3	311.3	321.3	319.4	331.9	505.3	1055.2	3004.0	5307.0	5275.4	3976.5
77.5°	259.2	263.2	279.7	277.3	294.8	345.4	548.0	1938.6	3440.6	3226.0	2213.4
80°	219.6	221.6	239.6	236.7	256.1	250.2	279.7	988.1	1459.4	1236.3	638.2
82.5°	76.2	94.2	183.0	188.5	195.5	151.4	161.4	403.0	445.7	341.4	133.9
85°	37.1	39.6	93.3	132.3	131.8	76.2	78.7	143.9	140.3	110.3	44.6
87.5°	6.0	7.5	11.1	51.7	41.1	20.1	27.1	28.1	29.1	25.1	10.0
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°	1139.5	1139.5	1139.5	1139.5	1139.5	1139.5	1139.5	1139.5	1139.5	1139.5	1139.5
2.5°	1152.0	1127.0	1074.3	1025.7	987.6	951.0	930.5	912.9	902.9	900.9	900.9
5°	1183.2	1131.5	1035.8	955.0	902.4	863.3	842.8	829.7	823.2	819.2	818.7
7.5°	1227.7	1152.0	1015.7	923.9	868.8	840.7	830.1	828.2	827.7	828.2	829.7
10°	1289.4	1185.6	1013.6	916.5	870.3	854.7	854.2	854.7	856.8	857.3	857.7
12.5°	1356.1	1220.3	1021.7	922.9	889.4	880.8	879.3	878.8	880.3	881.3	881.8
15°	1428.7	1265.9	1035.2	937.0	910.4	901.4	899.8	896.9	896.4	895.8	895.3
17.5°	1503.5	1311.0	1050.3	952.0	923.9	911.4	905.9	898.8	893.4	891.9	893.4
20°	1579.1	1355.6	1060.8	959.5	925.0	907.4	896.4	884.4	874.8	869.3	871.2
22.5°	1659.9	1402.2	1067.3	957.6	915.9	891.9	871.8	857.7	843.3	833.7	834.2
25°	1738.6	1442.8	1066.8	947.0	898.4	867.8	842.2	824.2	804.1	794.1	794.1
27.5°	1814.2	1479.4	1054.3	928.4	873.3	839.2	808.6	787.1	767.5	758.0	757.5
30°	1892.5	1510.0	1034.7	901.4	843.7	806.2	772.5	754.0	736.5	727.4	726.9
32.5°	1970.2	1538.0	1007.2	867.8	809.6	773.6	740.5	723.4	712.9	712.9	713.4
35°	2052.5	1557.6	970.6	828.7	773.6	738.9	712.9	702.8	701.8	695.9	694.3
37.5°	2139.2	1570.1	926.0	788.5	737.9	705.4	697.3	685.3	675.3	662.3	660.2
40°	2230.4	1582.7	872.3	747.0	700.4	682.3	678.8	662.8	634.2	602.1	597.6
42.5°	2341.2	1591.2	816.6	705.4	660.7	654.8	659.7	632.1	586.5	562.5	563.0
45°	2469.5	1605.3	765.5	664.3	620.1	620.1	641.2	605.1	567.5	552.5	554.9
47.5°	2636.0	1637.8	717.9	619.1	582.5	592.6	600.0	572.5	551.4	532.9	532.4
50°	2876.6	1716.1	668.8	573.5	553.9	574.0	563.4	547.5	522.9	507.9	506.4
52.5°	3175.3	1762.2	625.1	532.4	529.4	549.4	534.4	519.4	500.8	480.7	476.7
55°	3378.9	1770.7	588.6	502.4	512.8	510.9	505.3	491.8	481.7	455.2	455.7
57.5°	3606.5	1787.7	558.5	484.3	502.4	480.3	478.3	466.7	453.7	435.6	429.7
60°	3878.7	1814.2	532.4	477.2	493.3	460.2	450.2	445.7	432.7	423.6	426.1
62.5°	4175.5	1838.3	505.8	478.3	482.8	440.6	425.6	424.1	416.0	413.1	413.1
65°	4378.1	1772.6	472.7	477.2	466.3	420.7	401.6	401.1	394.5	393.5	393.1
67.5°	4307.4	1564.7	428.1	463.2	449.2	400.6	379.5	377.5	369.0	369.5	369.5
70°	3953.4	1267.8	366.4	428.7	428.1	382.5	356.4	349.9	338.4	340.4	342.5
72.5°	3289.6	939.5	283.7	370.9	394.5	365.9	329.8	319.4	304.8	306.8	306.3
75°	2375.7	638.7	206.5	282.3	343.4	346.4	303.8	285.8	268.2	271.2	272.2
77.5°	1215.8	361.9	151.9	194.5	269.7	314.9	280.2	256.1	252.2	280.2	276.2
80°	396.6	181.5	105.3	136.3	177.0	257.7	245.7	218.1	217.1	223.6	192.0
82.5°	118.3	76.7	67.6	89.7	97.8	197.5	212.1	164.9	141.9	149.4	154.4
85°	40.6	37.1	38.6	44.6	46.6	115.8	148.4	109.3	103.3	113.8	112.3
87.5°	9.5	13.0	11.1	10.0	10.0	28.1	57.6	45.6	63.1	42.1	40.6
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)