

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: P882396

Luminaire Tested: **NAV-SB2B-730-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882396
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-SB2B-730-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 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: 8250 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

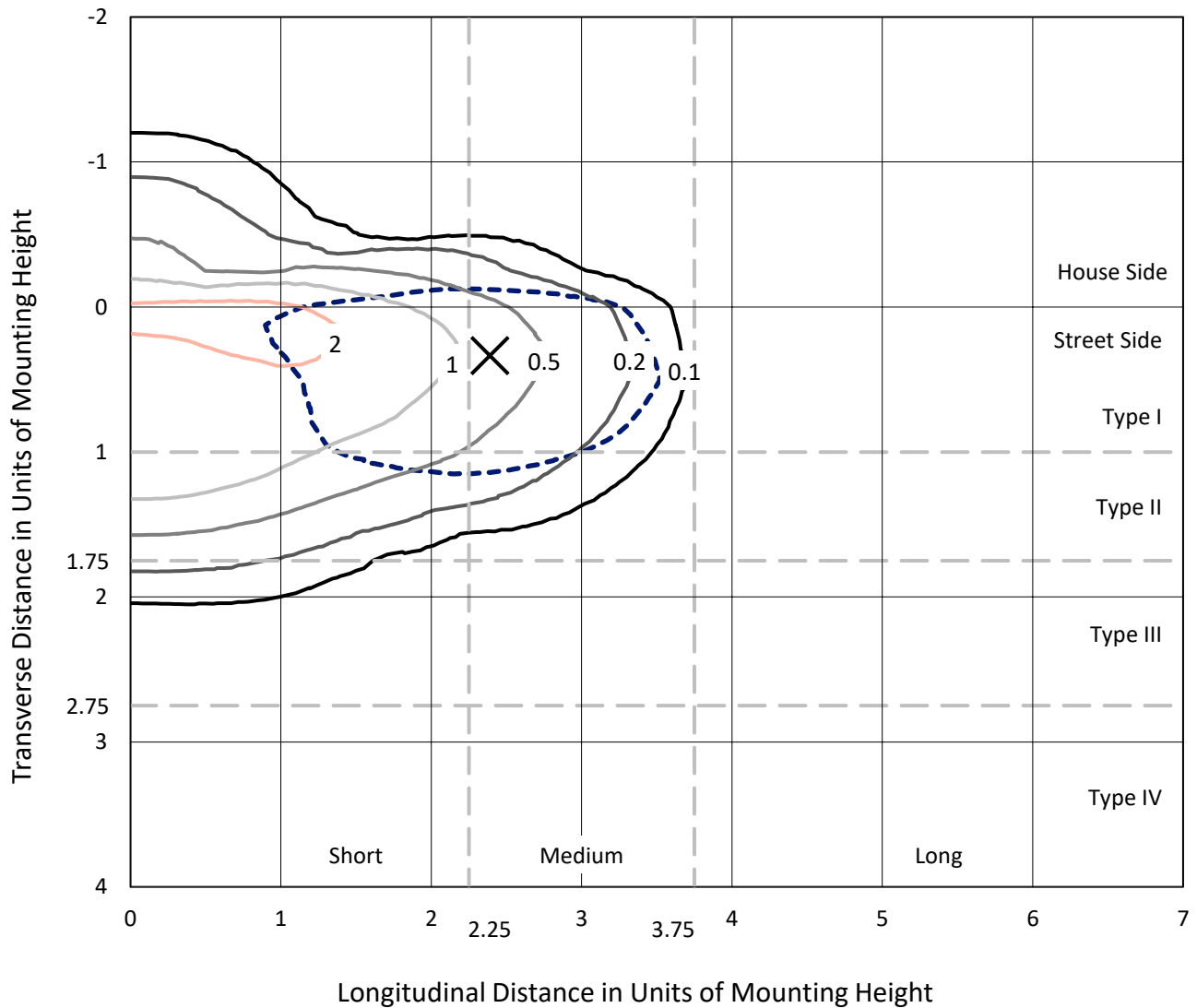
Input Watts (W): 73.9
Input Voltage (V): 120.0
Input Current (Ain): 0.627
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

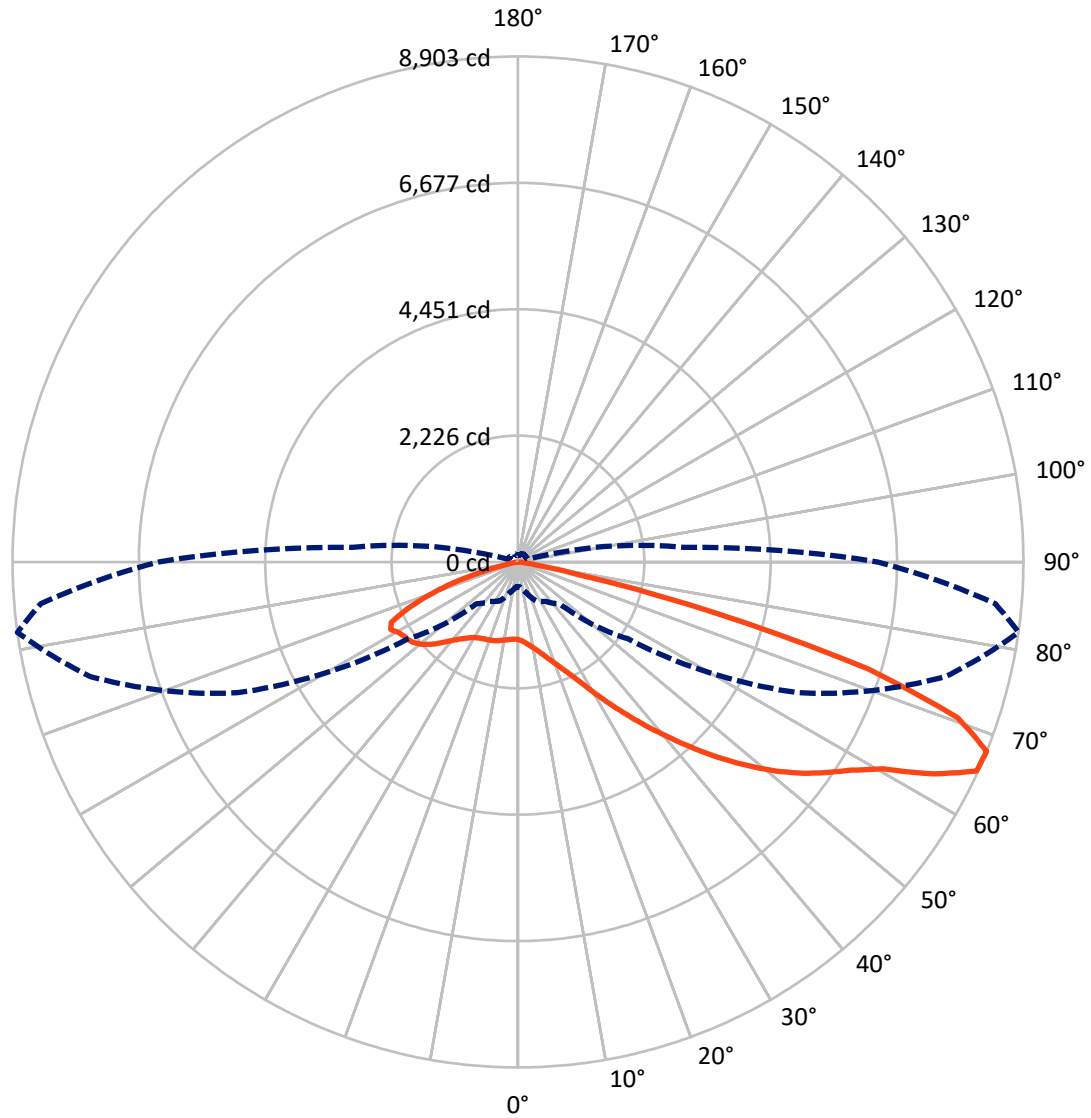
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1494.4	0.0	1494.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6755.6	0.0	6755.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	8250.0	0.0	8250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	1.5
10°-20°	316.4	3.8
20°-30°	506.8	6.1
30°-40°	896.2	10.9
40°-50°	1570.2	19.0
50°-60°	2094.2	25.4
60°-70°	1949.6	23.6
70°-80°	748.3	9.1
80°-90°	46.5	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°	8250.0	100.0
0°-180°	8250.0	100.0

Coefficient of Utilization



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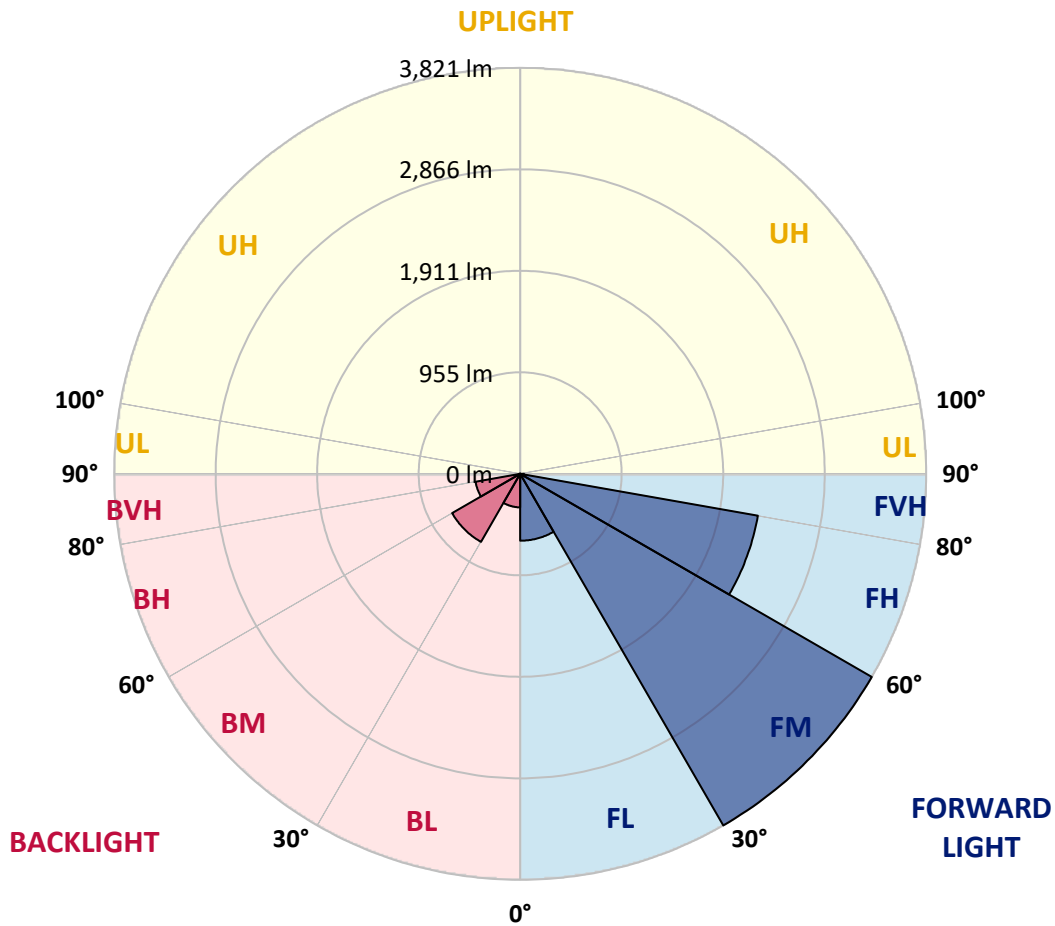
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	629.4	7.6			
FM (30°-60°)	3821.1	46.3			
FH (60°-80°)	2271.4	27.5			G2/5000
FVH (80°-90°)	33.8	0.4			G1/100
BL (0°-30°)	315.6	3.8	B1/500		
BM (30°-60°)	739.6	9.0	B1/1000		
BH (60°-80°)	426.5	5.2	B1/500		G1/500
BVH (80°-90°)	12.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7
2.5°	1444.6	1452.9	1448.1	1445.7	1441.6	1435.6	1430.9	1416.0	1400.6	1390.5	1386.9
5°	1473.7	1482.0	1481.4	1483.8	1486.7	1488.5	1487.3	1470.7	1448.7	1431.5	1421.4
7.5°	1448.7	1458.2	1465.9	1477.8	1498.6	1520.6	1531.3	1527.7	1505.1	1481.4	1468.9
10°	1378.0	1388.1	1406.5	1434.5	1478.4	1525.9	1565.7	1584.1	1569.9	1543.8	1526.5
12.5°	1248.5	1258.6	1294.9	1355.5	1429.1	1511.7	1587.7	1637.0	1640.6	1614.4	1594.2
15°	1103.0	1113.1	1151.7	1227.8	1340.0	1472.5	1599.6	1692.8	1724.3	1701.7	1677.4
17.5°	1012.7	1021.6	1050.7	1111.9	1228.9	1394.1	1595.4	1752.2	1824.1	1806.3	1777.2
20°	985.4	993.1	1006.8	1049.6	1147.0	1312.7	1568.1	1808.1	1931.6	1921.5	1888.9
22.5°	1014.5	1021.6	1025.8	1044.8	1106.0	1259.2	1533.7	1865.1	2056.4	2057.5	2017.7
25°	1081.6	1088.8	1084.0	1095.9	1122.6	1242.6	1520.6	1932.2	2213.2	2226.2	2181.1
27.5°	1192.1	1192.7	1181.4	1180.8	1185.0	1267.6	1534.2	2004.1	2411.0	2435.3	2379.5
30°	1413.7	1404.8	1361.4	1314.5	1293.1	1342.4	1572.3	2089.0	2644.4	2687.8	2617.7
32.5°	1755.2	1742.1	1662.5	1550.3	1437.4	1463.0	1640.6	2185.8	2898.6	2977.0	2891.5
35°	2125.9	2122.3	2039.1	1872.2	1675.0	1634.6	1751.6	2313.0	3176.0	3300.7	3199.2
37.5°	2470.4	2468.6	2421.1	2224.5	1984.5	1874.0	1929.8	2479.3	3473.0	3653.6	3533.6
40°	2785.2	2790.5	2743.0	2567.2	2325.4	2181.1	2172.2	2684.8	3803.2	4037.9	3895.3
42.5°	3057.2	3063.1	3015.0	2885.0	2662.2	2520.8	2469.8	2936.6	4125.8	4450.7	4282.0
45°	3241.9	3278.8	3271.6	3167.7	3007.9	2861.2	2827.3	3252.6	4493.5	4888.4	4690.7
47.5°	3294.2	3328.1	3381.5	3395.8	3298.4	3154.0	3194.4	3633.4	4865.3	5326.8	5101.7
50°	3165.3	3196.8	3307.9	3455.8	3523.5	3478.9	3551.4	4041.4	5246.0	5764.0	5505.0
52.5°	2911.1	2943.2	3083.3	3317.4	3593.6	3733.8	3909.6	4443.6	5614.9	6178.0	5886.9
55°	2543.4	2577.3	2757.3	3022.2	3459.9	3838.9	4208.3	4845.1	5952.9	6550.4	6231.4
57.5°	2043.3	2068.2	2255.3	2626.0	3123.7	3734.3	4428.7	5283.4	6271.2	6916.3	6573.0
60°	1331.7	1353.7	1571.1	1984.5	2566.6	3385.1	4472.7	5772.3	6694.1	7392.1	7033.3
62.5°	885.6	900.5	1029.4	1332.9	1807.5	2714.5	4215.5	6162.5	7314.3	8220.1	7822.7
65°	607.6	622.5	751.4	962.8	1167.8	1795.6	3476.0	6110.9	7876.2	8877.6	8407.8
67.5°	433.6	446.1	555.4	754.9	845.2	1043.0	2356.3	5450.4	7795.4	8902.6	8439.3
70°	310.7	317.8	408.1	588.0	671.8	626.6	1310.3	4168.5	6825.4	8220.7	7796.6
72.5°	217.4	219.8	283.3	447.9	541.1	457.4	623.7	2779.2	5162.3	6452.4	6044.3
75°	147.3	150.3	190.7	328.5	434.2	349.3	330.3	1490.3	3030.5	3571.6	3201.5
77.5°	90.3	91.5	123.0	224.5	324.9	266.1	212.6	631.4	1172.5	1151.1	981.3
80°	51.1	51.1	78.4	139.6	221.6	171.7	149.1	268.5	371.2	326.1	287.5
82.5°	28.5	29.1	57.0	86.7	146.7	101.6	82.0	124.1	160.4	142.0	123.5
85°	11.9	13.1	35.0	41.0	70.1	50.5	33.3	52.3	59.4	52.9	38.6
87.5°	1.2	1.8	10.7	7.7	8.3	10.1	4.8	10.1	8.3	8.3	5.9
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°	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7	1366.7
2.5°	1375.7	1366.7	1344.2	1318.0	1283.6	1267.0	1244.4	1228.9	1215.9	1217.1	1205.2
5°	1402.4	1379.8	1329.3	1266.4	1188.0	1132.1	1072.7	1031.7	998.5	991.4	975.3
7.5°	1439.2	1403.6	1315.1	1201.6	1069.2	968.8	879.1	821.5	780.5	767.4	754.4
10°	1486.7	1435.1	1296.7	1120.2	929.6	801.9	705.6	660.5	632.6	623.1	616.0
12.5°	1542.0	1471.3	1272.3	1021.0	785.8	662.9	601.7	579.1	570.2	567.2	565.5
15°	1611.5	1516.4	1235.5	903.4	664.1	577.9	551.8	548.8	550.0	548.8	548.2
17.5°	1694.0	1565.7	1175.5	782.3	582.1	534.6	525.1	527.5	530.4	529.8	528.6
20°	1784.3	1614.4	1098.9	674.8	526.3	503.7	498.3	500.7	503.1	501.9	501.3
22.5°	1887.1	1666.7	1013.9	591.0	488.8	475.2	469.2	469.8	469.8	467.5	466.3
25°	2010.0	1724.3	924.8	531.6	460.3	449.6	442.5	440.1	436.6	429.4	428.3
27.5°	2156.7	1785.5	839.3	490.0	437.8	427.7	419.3	413.4	404.5	392.6	391.4
30°	2321.9	1859.7	766.8	463.9	419.9	409.8	400.3	391.4	378.4	363.5	362.3
32.5°	2516.1	1939.3	714.0	446.7	403.9	393.2	381.9	371.2	357.0	342.1	342.7
35°	2747.7	2035.6	683.1	434.8	391.4	377.2	364.7	352.8	342.1	329.1	327.9
37.5°	2999.0	2137.7	673.6	428.9	383.1	361.1	346.9	338.6	337.4	329.7	329.1
40°	3274.0	2258.9	680.7	425.3	374.2	345.7	330.3	328.5	331.4	317.8	318.4
42.5°	3565.1	2402.6	692.6	421.1	361.7	330.3	315.4	315.4	313.0	294.0	294.0
45°	3879.9	2568.4	704.5	411.0	346.9	314.8	303.5	299.4	289.3	270.9	270.3
47.5°	4197.1	2737.1	713.4	392.6	329.1	301.7	291.6	282.1	267.3	250.7	250.1
50°	4498.2	2888.5	703.9	365.3	308.9	289.3	278.6	265.5	249.5	238.2	236.4
52.5°	4767.3	3019.8	663.5	333.2	287.5	276.2	266.7	253.0	240.0	228.1	226.9
55°	5001.3	3126.1	592.2	302.9	268.5	264.9	255.4	238.2	220.4	210.3	209.1
57.5°	5225.8	3206.9	503.1	278.0	251.3	252.4	238.2	222.7	206.1	195.4	194.2
60°	5524.6	3315.0	412.8	254.8	232.8	236.4	221.0	209.7	188.9	175.2	173.4
62.5°	6002.2	3483.1	327.9	226.3	211.5	212.6	206.1	192.4	167.5	151.5	150.3
65°	6381.1	3421.3	258.4	195.4	187.1	188.9	188.9	174.0	147.3	128.9	127.1
67.5°	6338.4	2929.5	206.1	165.1	163.9	165.1	169.3	156.8	130.7	115.8	113.4
70°	5838.8	2330.2	165.1	137.2	142.6	139.6	151.5	143.1	117.6	102.8	101.0
72.5°	4764.3	1678.6	125.9	113.4	109.3	114.0	136.6	128.9	98.0	81.4	79.6
75°	2784.0	895.7	93.8	89.7	79.0	95.0	121.2	109.9	74.8	60.0	58.2
77.5°	906.4	312.4	68.9	65.9	58.8	76.6	103.4	92.7	61.2	47.5	45.7
80°	242.9	94.4	46.9	43.4	38.0	57.0	82.0	73.7	44.0	30.9	30.3
82.5°	97.4	39.8	27.3	24.4	20.8	39.2	64.7	59.4	32.7	19.6	19.6
85°	31.5	13.1	10.1	7.7	9.5	24.4	38.6	40.4	23.2	10.1	7.7
87.5°	4.2	1.8	1.8	2.4	1.8	4.2	11.9	11.3	6.5	1.2	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)