

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: P970798

Luminaire Tested: **NAV-SB6C-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28079.8 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

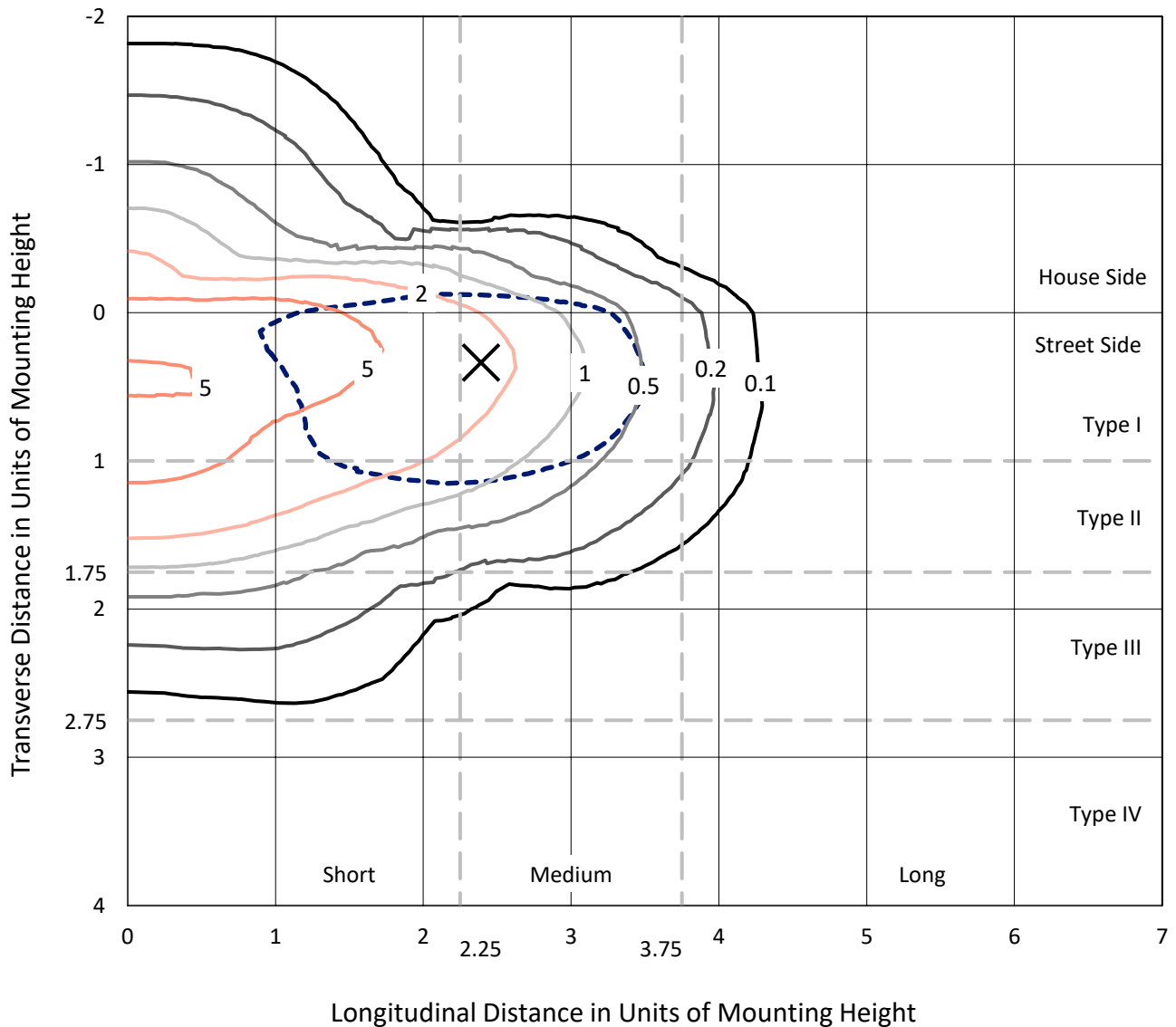
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

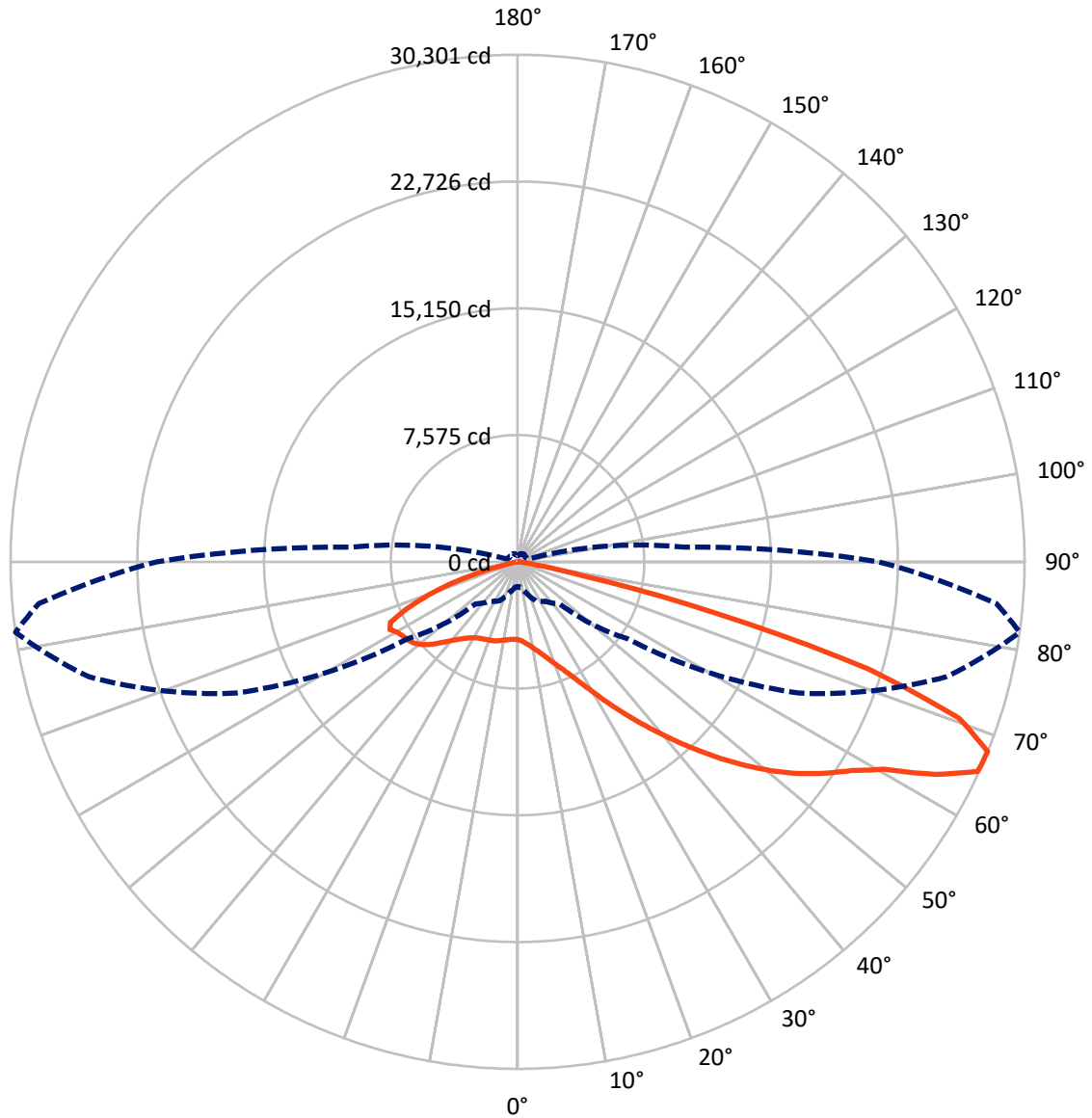
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	5086.4	0.0	5086.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22993.4	0.0	22993.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	28079.8	0.0	28079.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.4	1.5
10°-20°	1077.0	3.8
20°-30°	1725.0	6.1
30°-40°	3050.3	10.9
40°-50°	5344.4	19.0
50°-60°	7128.0	25.4
60°-70°	6635.8	23.6
70°-80°	2546.8	9.1
80°-90°	158.2	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°	28079.8	100.0
0°-180°	28079.8	100.0

Coefficient of Utilization

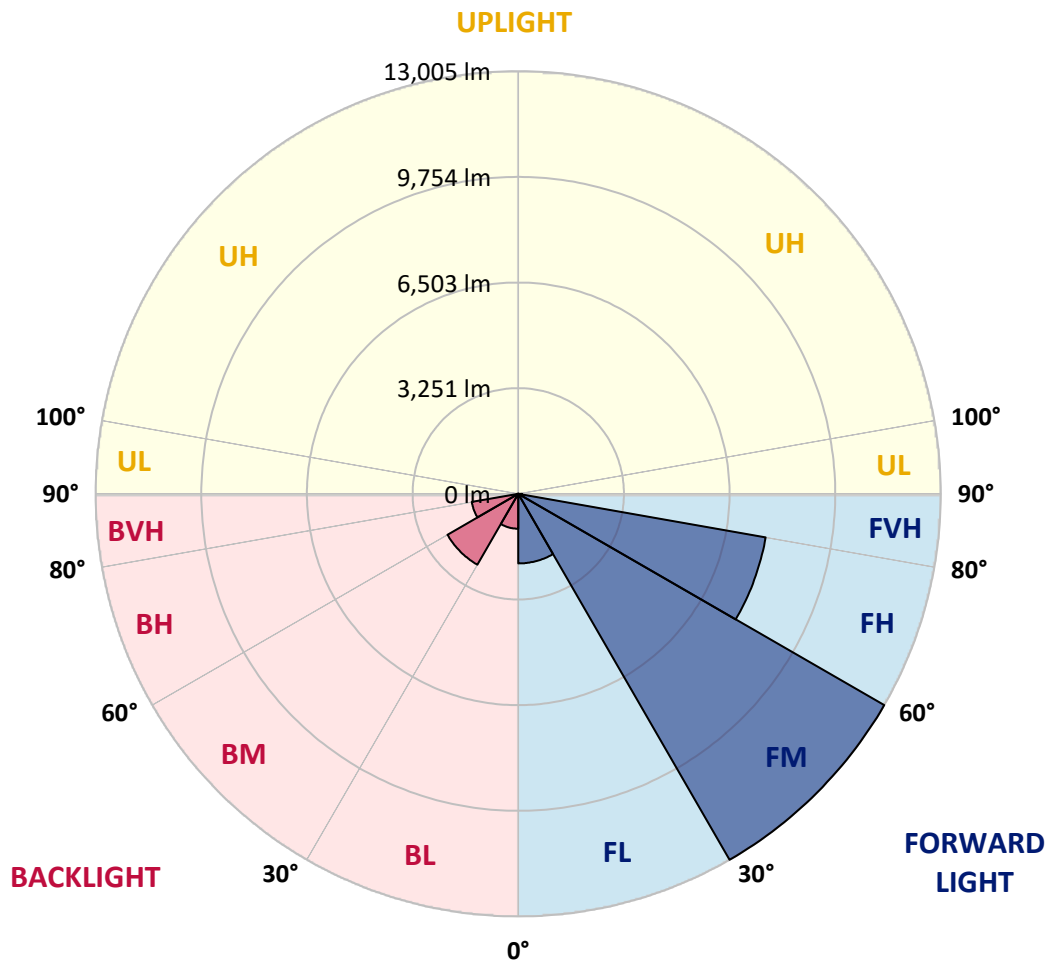


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2142.2	7.6			
FM (30°-60°)	13005.5	46.3			
FH (60°-80°)	7730.8	27.5			G4/12000
FVH (80°-90°)	115.0	0.4			G2/225
BL (0°-30°)	1074.2	3.8	B3/2500		
BM (30°-60°)	2517.2	9.0	B3/5000		
BH (60°-80°)	1451.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	43.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4651.9	4651.9	4651.9	4651.9	4651.9	4651.9	4651.9	4651.9	4651.9	4651.9	4651.9
2.5°	4916.7	4945.0	4928.8	4920.7	4906.6	4886.4	4870.2	4819.7	4767.1	4732.7	4720.6
5°	5015.8	5044.1	5042.1	5050.2	5060.2	5066.4	5062.3	5005.7	4930.9	4872.2	4837.9
7.5°	4930.9	4963.3	4989.5	5030.0	5100.7	5175.5	5211.9	5199.7	5123.0	5042.1	4999.6
10°	4690.3	4724.6	4787.4	4882.4	5031.9	5193.7	5329.2	5391.8	5343.3	5254.4	5195.7
12.5°	4249.5	4284.0	4407.3	4613.4	4864.1	5145.2	5403.9	5571.8	5583.9	5494.9	5426.1
15°	3754.3	3788.6	3920.0	4178.8	4560.9	5011.7	5444.4	5761.8	5868.9	5792.1	5709.2
17.5°	3447.0	3477.3	3576.3	3784.6	4182.8	4744.9	5430.2	5964.0	6208.5	6148.0	6048.8
20°	3354.0	3380.2	3426.8	3572.3	3903.8	4467.9	5337.3	6154.0	6574.5	6540.1	6428.9
22.5°	3453.0	3477.3	3491.5	3556.1	3764.4	4285.9	5220.0	6348.0	6999.0	7003.1	6867.6
25°	3681.5	3705.8	3689.6	3730.0	3821.0	4229.4	5175.5	6576.5	7532.8	7577.2	7423.6
27.5°	4057.5	4059.5	4021.1	4019.1	4033.3	4314.2	5222.0	6821.2	8206.0	8288.9	8098.8
30°	4811.6	4781.3	4633.7	4474.0	4401.2	4569.0	5351.4	7110.2	9000.5	9148.1	8909.5
32.5°	5974.1	5929.6	5658.7	5276.6	4892.4	4979.3	5583.9	7439.8	9865.8	10132.6	9841.5
35°	7235.6	7223.5	6940.4	6372.3	5701.2	5563.7	5961.9	7872.4	10810.0	11234.5	10888.8
37.5°	8408.2	8402.1	8240.4	7571.2	6754.4	6378.4	6568.4	8438.5	11820.8	12435.4	12026.9
40°	9479.6	9497.9	9336.1	8737.7	7914.8	7423.6	7393.3	9138.0	12944.8	13743.4	13258.2
42.5°	10405.6	10425.8	10262.1	9819.3	9061.2	8580.0	8406.1	9995.2	14042.6	15148.5	14574.3
45°	11034.3	11159.7	11135.4	10781.7	10237.8	9738.4	9623.2	11070.7	15294.0	16638.4	15965.2
47.5°	11212.3	11327.5	11509.4	11557.9	11226.4	10735.1	10872.6	12366.6	16559.6	18130.4	17364.2
50°	10773.6	10880.7	11258.7	11762.2	11992.6	11841.0	12087.6	13755.5	17855.5	19618.4	18736.9
52.5°	9908.3	10017.4	10494.6	11291.1	12231.1	12708.3	13306.7	15124.2	19110.9	21027.5	20036.9
55°	8656.8	8772.1	9384.6	10286.3	11776.3	13066.1	14323.6	16490.8	20261.3	22295.1	21209.4
57.5°	6954.6	7039.5	7676.3	8937.8	10632.0	12710.3	15073.6	17982.8	21344.9	23540.5	22372.0
60°	4532.7	4607.4	5347.3	6754.4	8735.7	11521.5	15223.2	19646.7	22784.3	25159.9	23938.7
62.5°	3014.3	3064.9	3503.6	4536.6	6151.9	9239.0	14347.8	20974.9	24895.0	27978.0	26625.5
65°	2068.1	2118.7	2557.4	3277.1	3974.6	6111.6	11830.9	20799.0	26807.4	30216.0	28616.9
67.5°	1475.8	1518.3	1890.3	2569.6	2876.9	3550.1	8020.0	18551.0	26532.5	30300.9	28724.0
70°	1057.3	1081.6	1388.9	2001.4	2286.6	2132.9	4459.8	14188.2	23231.1	27980.0	26536.5
72.5°	739.9	748.0	964.3	1524.4	1841.7	1556.7	2122.8	9459.4	17570.4	21961.5	20572.6
75°	501.3	511.5	648.9	1118.0	1477.8	1188.8	1124.0	5072.4	10314.6	12156.4	10896.9
77.5°	307.3	311.3	418.5	764.2	1105.9	905.7	723.8	2149.0	3990.8	3918.1	3339.9
80°	173.8	173.8	266.9	475.1	754.1	584.2	507.5	913.8	1263.5	1109.9	978.5
82.5°	97.1	99.0	194.0	295.2	499.4	345.7	279.0	422.5	545.8	483.2	420.6
85°	40.4	44.5	119.3	139.5	238.5	171.9	113.3	177.9	202.1	179.9	131.4
87.5°	4.0	6.0	36.4	26.2	28.3	34.3	16.2	34.3	28.3	28.3	20.2
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°	4651.9	4651.9	4651.9	4651.9	4651.9	4651.9	4651.9	4651.9	4651.9	4651.9	4651.9
2.5°	4682.2	4651.9	4575.1	4486.1	4368.9	4312.3	4235.4	4182.8	4138.3	4142.4	4101.9
5°	4773.2	4696.3	4524.6	4310.2	4043.3	3853.3	3651.2	3511.6	3398.5	3374.2	3319.6
7.5°	4898.6	4777.2	4476.0	4089.9	3639.1	3297.3	2992.1	2796.0	2656.5	2612.0	2567.5
10°	5060.2	4884.3	4413.3	3812.9	3164.0	2729.3	2401.8	2248.1	2153.1	2120.7	2096.4
12.5°	5248.3	5007.7	4330.4	3475.3	2674.6	2256.2	2048.0	1971.2	1940.8	1930.7	1924.6
15°	5484.8	5161.4	4205.1	3075.0	2260.2	1967.1	1878.1	1868.1	1872.1	1868.1	1866.0
17.5°	5765.8	5329.2	4000.9	2662.5	1981.2	1819.5	1787.2	1795.3	1805.3	1803.4	1799.3
20°	6073.1	5494.9	3740.1	2296.6	1791.2	1714.4	1696.2	1704.3	1712.4	1708.4	1706.3
22.5°	6422.9	5672.9	3451.0	2011.6	1663.9	1617.3	1597.2	1599.1	1599.1	1591.1	1587.0
25°	6841.4	5868.9	3147.8	1809.4	1566.8	1530.4	1506.1	1498.0	1485.9	1461.6	1457.7
27.5°	7340.7	6077.1	2856.7	1667.9	1489.9	1455.6	1427.3	1407.1	1376.8	1336.3	1332.3
30°	7902.7	6329.9	2610.0	1578.9	1429.4	1394.9	1362.6	1332.3	1287.8	1237.3	1233.2
32.5°	8563.9	6600.8	2430.1	1520.3	1374.7	1338.3	1299.9	1263.5	1215.0	1164.5	1166.6
35°	9352.3	6928.3	2324.9	1479.9	1332.3	1283.8	1241.3	1200.9	1164.5	1120.0	1115.9
37.5°	10207.5	7276.1	2292.6	1459.7	1304.0	1229.2	1180.7	1152.4	1148.3	1122.1	1120.0
40°	11143.5	7688.4	2316.8	1447.5	1273.7	1176.6	1124.0	1118.0	1128.1	1081.6	1083.6
42.5°	12134.2	8177.7	2357.3	1433.4	1231.2	1124.0	1073.5	1073.5	1065.4	1000.7	1000.7
45°	13205.6	8741.7	2397.7	1399.0	1180.7	1071.5	1033.1	1019.0	984.5	921.9	919.8
47.5°	14285.2	9315.9	2428.0	1336.3	1120.0	1027.0	992.6	960.3	909.8	853.1	851.2
50°	15310.2	9831.4	2395.7	1243.3	1051.2	984.5	948.1	903.6	849.1	810.7	804.6
52.5°	16226.0	10278.2	2258.2	1134.2	978.5	940.1	907.7	861.2	816.7	776.3	772.2
55°	17022.6	10640.1	2015.7	1031.0	913.8	901.7	869.3	810.7	750.0	715.7	711.7
57.5°	17786.7	10915.0	1712.4	946.2	855.2	859.3	810.7	758.1	701.5	665.1	661.1
60°	18803.6	11283.0	1405.1	867.3	792.5	804.6	752.0	713.6	642.9	596.3	590.3
62.5°	20429.1	11855.2	1115.9	770.3	719.8	723.8	701.5	655.0	570.1	515.6	511.5
65°	21718.9	11644.9	879.4	665.1	636.8	642.9	642.9	592.3	501.3	438.7	432.7
67.5°	21573.4	9970.9	701.5	562.0	558.0	562.0	576.2	533.7	444.7	394.2	386.1
70°	19873.1	7931.0	562.0	467.0	485.2	475.1	515.6	487.2	400.3	349.7	343.7
72.5°	16215.9	5713.2	428.6	386.1	372.0	388.2	464.9	438.7	333.5	277.0	270.9
75°	9475.6	3048.7	319.4	305.2	268.9	323.5	412.5	374.0	254.7	204.2	198.1
77.5°	3085.0	1063.4	234.5	224.4	200.2	260.8	351.8	315.4	208.3	161.7	155.7
80°	826.9	321.4	159.7	147.6	129.4	194.0	279.0	250.7	149.6	105.2	103.1
82.5°	331.6	135.4	93.0	82.9	70.7	133.5	220.4	202.1	111.2	66.7	66.7
85°	107.1	44.5	34.3	26.2	32.4	82.9	131.4	137.5	78.8	34.3	26.2
87.5°	14.1	6.0	6.0	8.1	6.0	14.1	40.4	38.4	22.2	4.0	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)