

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: P970395

Luminaire Tested: **NAV-SB6B-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970395
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-SB6B-740-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA 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: 27040.5 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 220.4
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

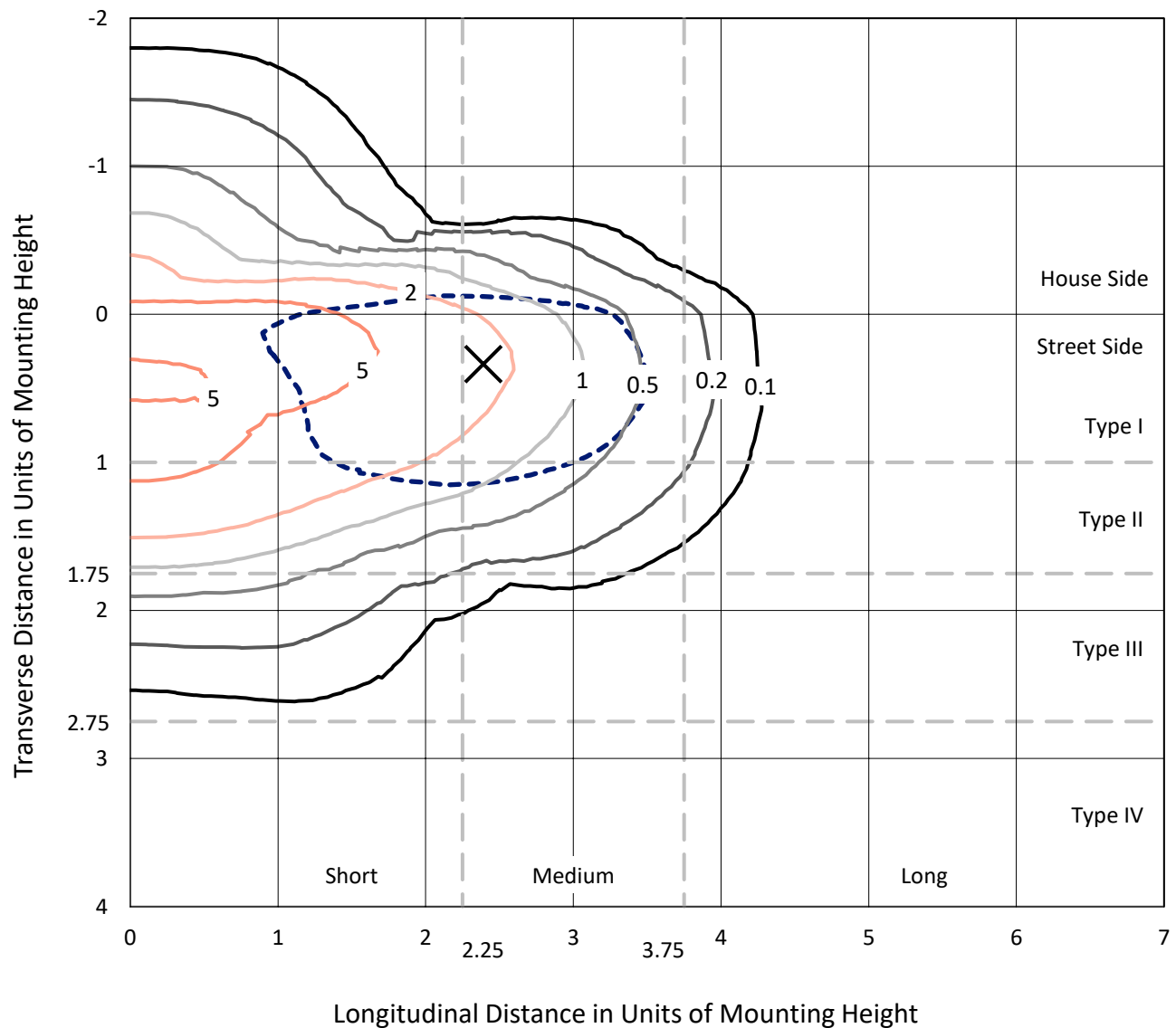


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Iso-Footcandle Lines of Horizontal Illumination

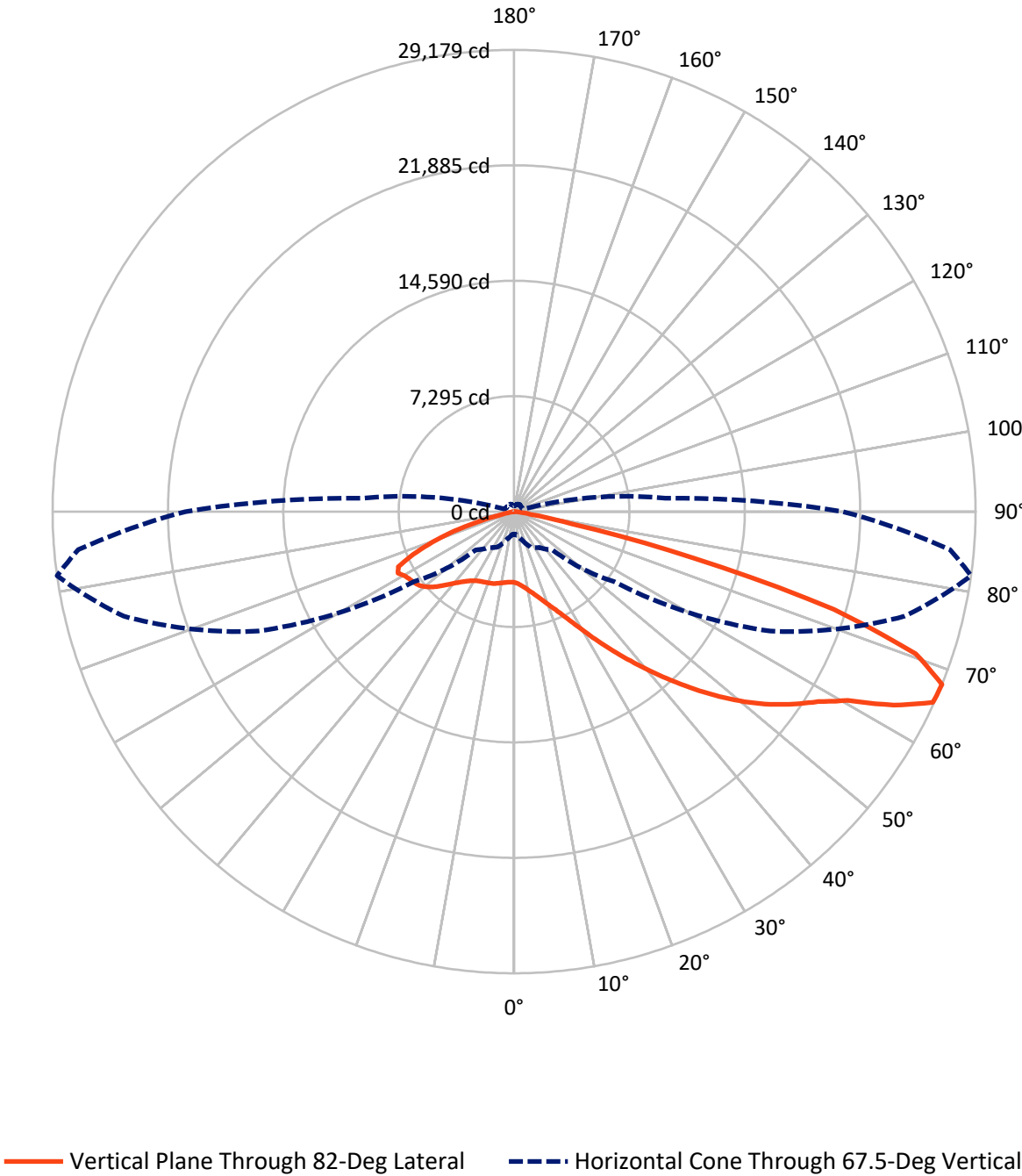
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	4898.2	0.0	4898.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22142.4	0.0	22142.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	27040.5	0.0	27040.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.1	1.5
10°-20°	1037.1	3.8
20°-30°	1661.1	6.1
30°-40°	2937.4	10.9
40°-50°	5146.6	19.0
50°-60°	6864.1	25.4
60°-70°	6390.2	23.6
70°-80°	2452.5	9.1
80°-90°	152.3	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°	27040.5	100.0
0°-180°	27040.5	100.0

Coefficient of Utilization



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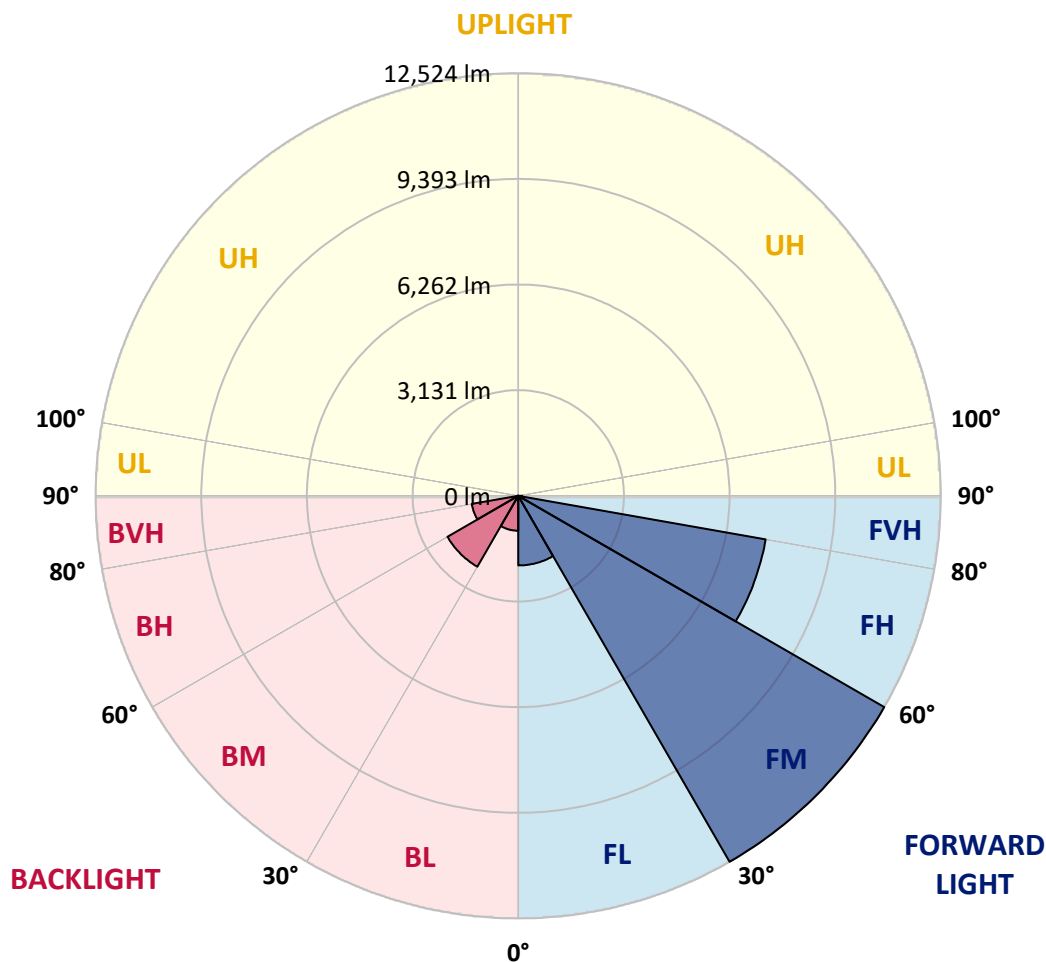
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2062.9	7.6			
FM	(30°-60°)	12524.1	46.3			
FH	(60°-80°)	7444.7	27.5			G3/7500
FVH	(80°-90°)	110.7	0.4			G2/225
BL	(0°-30°)	1034.5	3.8	B3/2500		
BM	(30°-60°)	2424.1	9.0	B2/2500		
BH	(60°-80°)	1398.0	5.2	B3/2500		G3/2500
BVH	(80°-90°)	41.6	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4479.7	4479.7	4479.7	4479.7	4479.7	4479.7	4479.7	4479.7	4479.7	4479.7	4479.7
2.5°	4734.8	4761.9	4746.5	4738.7	4725.0	4705.6	4690.0	4641.3	4590.7	4557.6	4545.9
5°	4830.1	4857.4	4855.4	4863.2	4873.0	4878.8	4874.9	4820.4	4748.4	4691.9	4658.8
7.5°	4748.4	4779.5	4804.8	4843.7	4911.9	4984.0	5019.0	5007.3	4933.3	4855.4	4814.5
10°	4516.7	4549.8	4610.1	4701.7	4845.7	5001.5	5131.9	5192.2	5145.5	5059.8	5003.4
12.5°	4092.3	4125.4	4244.1	4442.8	4684.1	4954.7	5203.9	5365.6	5377.2	5291.6	5225.3
15°	3615.3	3648.4	3775.0	4024.2	4392.1	4826.2	5242.9	5548.5	5651.7	5577.7	5497.9
17.5°	3319.4	3348.6	3444.0	3644.5	4028.0	4569.2	5229.2	5743.2	5978.8	5920.4	5825.0
20°	3229.8	3255.1	3299.9	3440.1	3759.4	4302.5	5139.7	5926.2	6331.1	6298.0	6191.0
22.5°	3325.2	3348.6	3362.2	3424.5	3625.0	4127.4	5026.8	6113.1	6740.0	6743.9	6613.4
25°	3545.2	3568.5	3553.0	3591.9	3679.5	4072.8	4984.0	6333.1	7253.9	7296.8	7148.9
27.5°	3907.3	3909.2	3872.2	3870.3	3883.9	4154.5	5028.8	6568.7	7902.2	7982.1	7799.1
30°	4633.5	4604.3	4462.1	4308.4	4238.3	4399.9	5153.3	6847.1	8667.4	8809.5	8579.8
32.5°	5752.9	5710.1	5449.2	5081.2	4711.4	4795.1	5377.2	7164.4	9500.6	9757.6	9477.3
35°	6967.7	6956.1	6683.5	6136.5	5490.1	5357.8	5741.2	7581.0	10409.8	10818.7	10485.8
37.5°	8097.0	8091.1	7935.3	7290.9	6504.4	6142.3	6325.3	8126.1	11383.2	11975.1	11581.8
40°	9128.8	9146.3	8990.6	8414.3	7621.9	7148.9	7119.6	8799.7	12465.6	13234.7	12767.4
42.5°	10020.4	10039.9	9882.2	9455.8	8725.8	8262.4	8095.0	9625.3	13522.8	14587.7	14034.8
45°	10625.9	10746.6	10723.2	10382.5	9858.9	9377.9	9267.0	10660.9	14727.9	16022.6	15374.3
47.5°	10797.2	10908.2	11083.4	11130.2	10810.9	10337.7	10470.2	11908.9	15946.6	17459.3	16721.4
50°	10374.7	10478.0	10842.0	11326.8	11548.7	11402.7	11640.2	13246.4	17194.6	18892.2	18043.4
52.5°	9541.5	9646.7	10106.1	10873.2	11778.5	12237.9	12814.1	14564.3	18403.6	20249.2	19295.2
55°	8336.4	8447.3	9037.3	9905.6	11340.4	12582.5	13793.4	15880.4	19511.3	21469.9	20424.4
57.5°	6697.1	6778.9	7392.2	8607.0	10238.5	12239.8	14515.7	17317.3	20554.8	22669.1	21543.9
60°	4364.9	4436.9	5149.4	6504.4	8412.4	11095.1	14659.8	18919.4	21940.9	24228.5	23052.7
62.5°	2902.8	2951.4	3373.9	4368.8	5924.3	8897.1	13816.8	20198.5	23973.5	26942.4	25640.0
65°	1991.7	2040.3	2462.8	3155.9	3827.6	5885.3	11393.0	20029.2	25815.2	29097.6	27557.6
67.5°	1421.2	1462.1	1820.3	2474.5	2770.4	3418.7	7723.2	17864.3	25550.5	29179.4	27660.9
70°	1018.2	1041.6	1337.5	1927.4	2201.9	2053.9	4294.8	13662.9	22371.2	26944.4	25554.4
72.5°	712.6	720.4	928.6	1467.9	1773.6	1499.1	2044.2	9109.3	16920.1	21148.6	19811.1
75°	482.8	492.5	624.9	1076.6	1423.1	1144.7	1082.4	4884.6	9932.9	11706.4	10493.5
77.5°	295.9	299.8	403.0	735.9	1065.0	872.2	697.0	2069.5	3843.0	3773.0	3216.2
80°	167.4	167.4	257.0	457.6	726.2	562.6	488.6	880.0	1216.8	1068.9	942.3
82.5°	93.5	95.4	186.9	284.2	480.8	332.9	268.7	406.9	525.6	465.2	405.0
85°	38.9	42.8	114.9	134.4	229.7	165.4	109.1	171.3	194.6	173.2	126.6
87.5°	3.9	5.8	35.1	25.3	27.3	33.1	15.6	33.1	27.3	27.3	19.5
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°	4479.7	4479.7	4479.7	4479.7	4479.7	4479.7	4479.7	4479.7	4479.7	4479.7	4479.7
2.5°	4508.9	4479.7	4405.8	4320.1	4207.1	4152.6	4078.7	4028.0	3985.2	3989.1	3950.1
5°	4596.5	4522.5	4357.1	4150.6	3893.7	3710.7	3516.1	3381.7	3272.6	3249.2	3196.8
7.5°	4717.3	4600.4	4310.3	3938.5	3504.4	3175.3	2881.4	2692.5	2558.2	2515.4	2472.5
10°	4873.0	4703.6	4250.0	3671.8	3046.8	2628.2	2312.8	2164.9	2073.4	2042.2	2018.8
12.5°	5054.1	4822.3	4170.1	3346.6	2575.7	2172.7	1972.2	1898.2	1869.0	1859.2	1853.4
15°	5281.8	4970.3	4049.5	2961.1	2176.6	1894.3	1808.6	1798.9	1802.8	1798.9	1796.9
17.5°	5552.4	5131.9	3852.8	2564.0	1907.9	1752.1	1721.0	1728.8	1738.5	1736.6	1732.7
20°	5848.3	5291.6	3601.6	2211.6	1724.9	1651.0	1633.4	1641.2	1649.0	1645.1	1643.2
22.5°	6185.2	5462.8	3323.3	1937.1	1602.3	1557.5	1538.0	1540.0	1540.0	1532.2	1528.3
25°	6588.2	5651.7	3031.2	1742.4	1508.8	1473.7	1450.4	1442.6	1430.9	1407.5	1403.6
27.5°	7069.0	5852.2	2750.9	1606.2	1434.8	1401.7	1374.5	1355.0	1325.8	1286.9	1283.0
30°	7610.2	6095.6	2513.4	1520.5	1376.5	1343.4	1312.2	1283.0	1240.1	1191.5	1187.6
32.5°	8246.8	6356.4	2340.1	1464.0	1323.9	1288.8	1251.8	1216.8	1170.0	1121.4	1123.3
35°	9006.2	6671.8	2238.9	1425.1	1283.0	1236.3	1195.4	1156.4	1121.4	1078.5	1074.6
37.5°	9829.6	7006.7	2207.7	1405.6	1255.7	1183.7	1136.9	1109.7	1105.8	1080.5	1078.5
40°	10731.0	7403.9	2231.1	1393.9	1226.5	1133.0	1082.4	1076.6	1086.3	1041.6	1043.6
42.5°	11685.0	7875.0	2270.1	1380.3	1185.6	1082.4	1033.8	1033.8	1026.0	963.7	963.7
45°	12716.9	8418.2	2308.9	1347.3	1136.9	1031.9	994.9	981.2	948.1	887.8	885.8
47.5°	13756.4	8971.1	2338.1	1286.9	1078.5	989.0	955.9	924.8	876.1	821.5	819.6
50°	14743.5	9467.5	2307.0	1197.3	1012.4	948.1	913.1	870.2	817.6	780.6	774.8
52.5°	15625.4	9897.8	2174.6	1092.1	942.3	905.3	874.1	829.3	786.5	747.6	743.7
55°	16392.5	10246.3	1941.0	992.9	880.0	868.3	837.1	780.6	722.3	689.2	685.3
57.5°	17128.4	10511.1	1649.0	911.1	823.5	827.4	780.6	730.1	675.6	640.5	636.6
60°	18107.6	10865.4	1353.1	835.2	763.2	774.8	724.3	687.3	619.1	574.3	568.5
62.5°	19672.9	11416.3	1074.6	741.8	693.1	697.0	675.6	630.8	549.0	496.4	492.5
65°	20915.0	11213.8	846.9	640.5	613.3	619.1	619.1	570.4	482.8	422.5	416.7
67.5°	20774.8	9601.9	675.6	541.2	537.3	541.2	554.8	513.9	428.3	379.7	371.9
70°	19137.6	7637.5	541.2	449.8	467.2	457.6	496.4	469.1	385.5	336.8	331.0
72.5°	15615.7	5501.8	412.8	371.9	358.2	373.8	447.8	422.5	321.2	266.7	260.9
75°	9124.9	2935.8	307.6	294.0	258.9	311.5	397.2	360.2	245.3	196.6	190.8
77.5°	2970.9	1024.1	225.8	216.1	192.7	251.1	338.8	303.7	200.5	155.7	150.0
80°	796.2	309.5	153.8	142.2	124.6	186.9	268.7	241.4	144.1	101.3	99.3
82.5°	319.3	130.5	89.6	79.8	68.2	128.5	212.2	194.6	107.1	64.3	64.3
85°	103.2	42.8	33.1	25.3	31.2	79.8	126.6	132.4	76.0	33.1	25.3
87.5°	13.6	5.8	5.8	7.8	5.8	13.6	38.9	37.0	21.4	3.9	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)