

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: P970903

Luminaire Tested: **NAV-SB6C-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35856.5 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

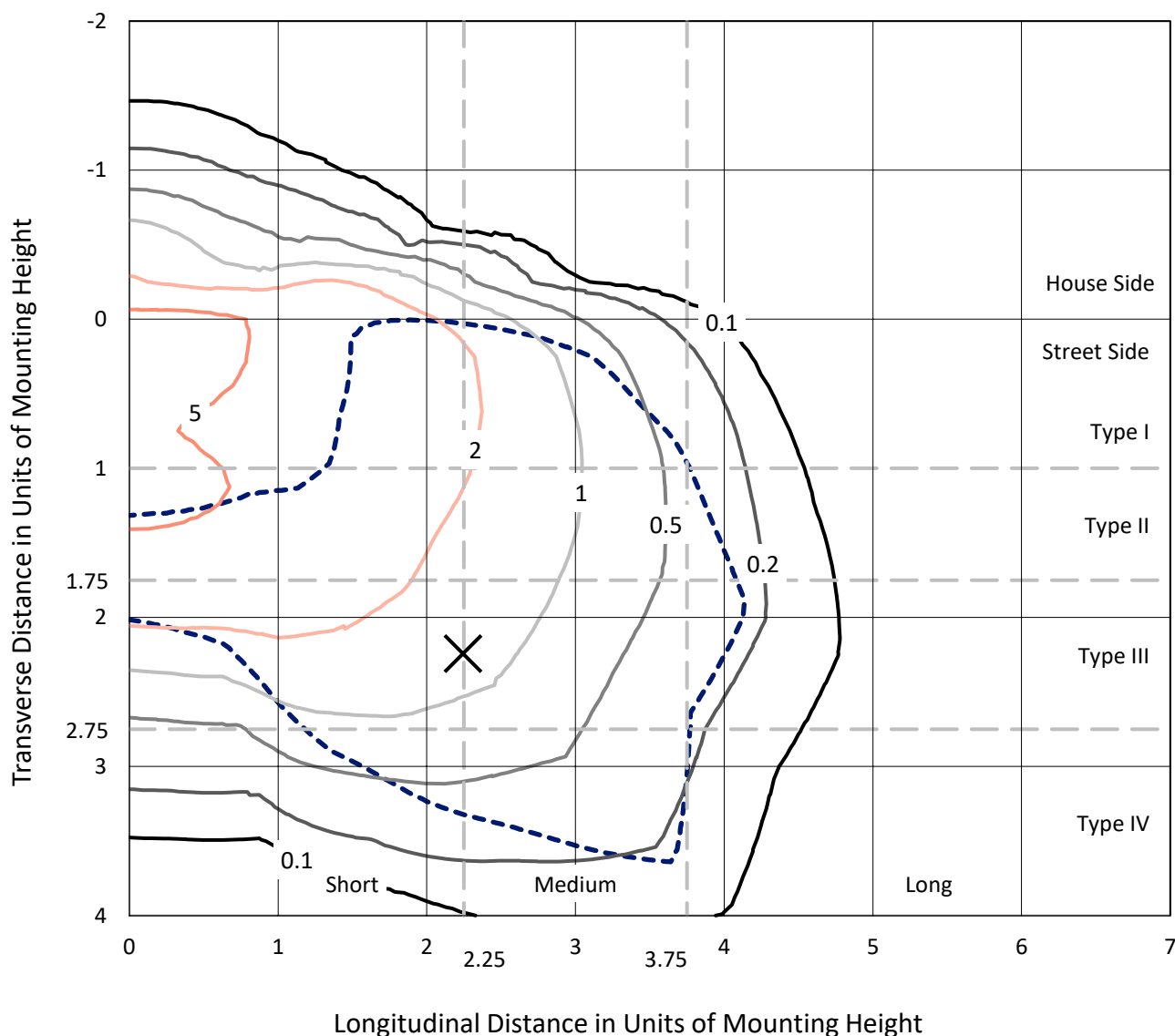
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P970903
 CATALOG NUMBER: NAV-SB6C-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

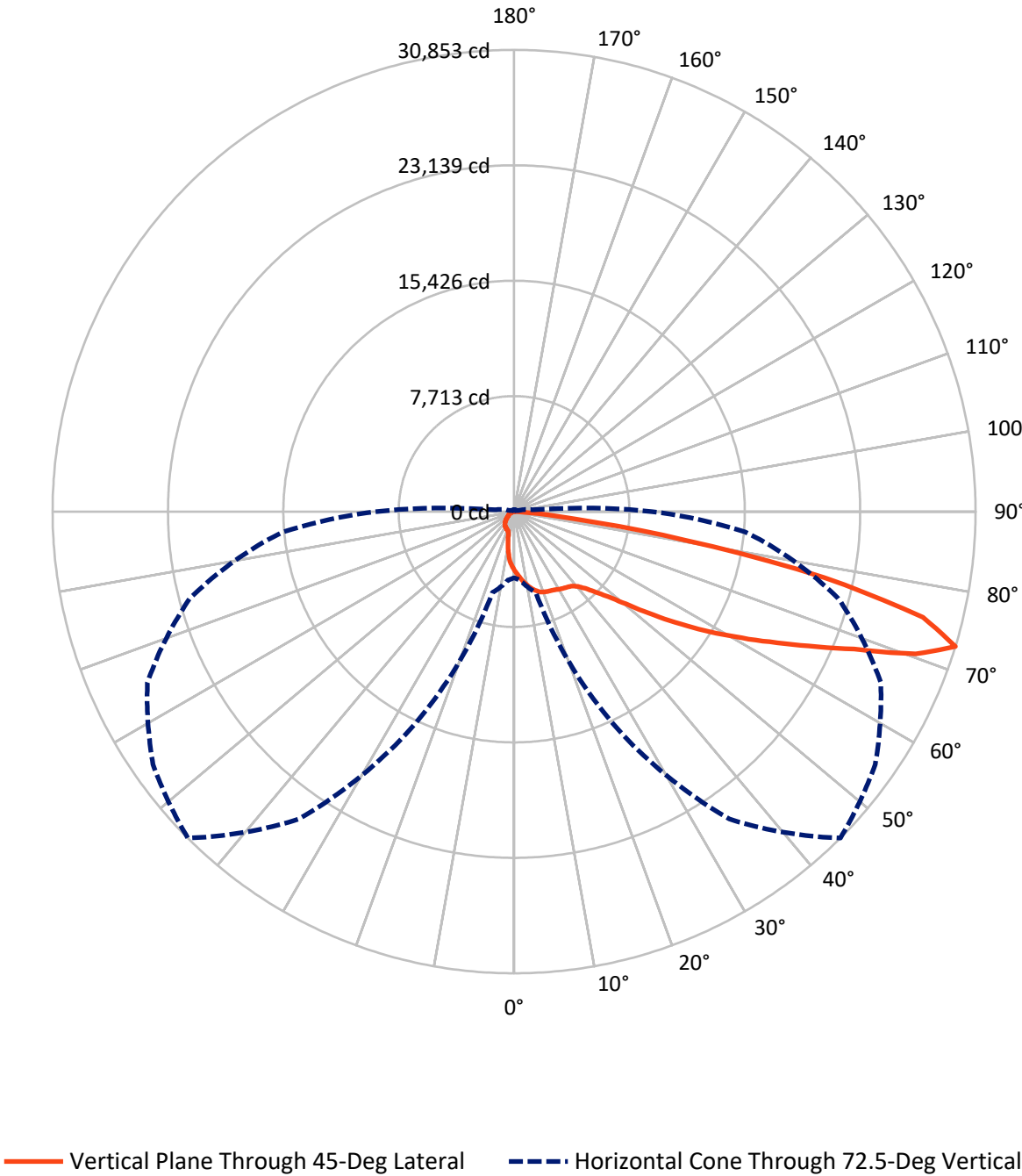
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P970903
CATALOG NUMBER: NAV-SB6C-735-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3767.5	0.0	3767.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	32089.0	0.0	32089.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	35856.5	0.0	35856.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.1	1.0
10°-20°	1081.7	3.0
20°-30°	1776.3	5.0
30°-40°	2519.2	7.0
40°-50°	4164.0	11.6
50°-60°	7480.1	20.9
60°-70°	10386.5	29.0
70°-80°	7534.0	21.0
80°-90°	544.7	1.5
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°	35856.5	100.0
0°-180°	35856.5	100.0

Coefficient of Utilization



REPORT NUMBER: P970903

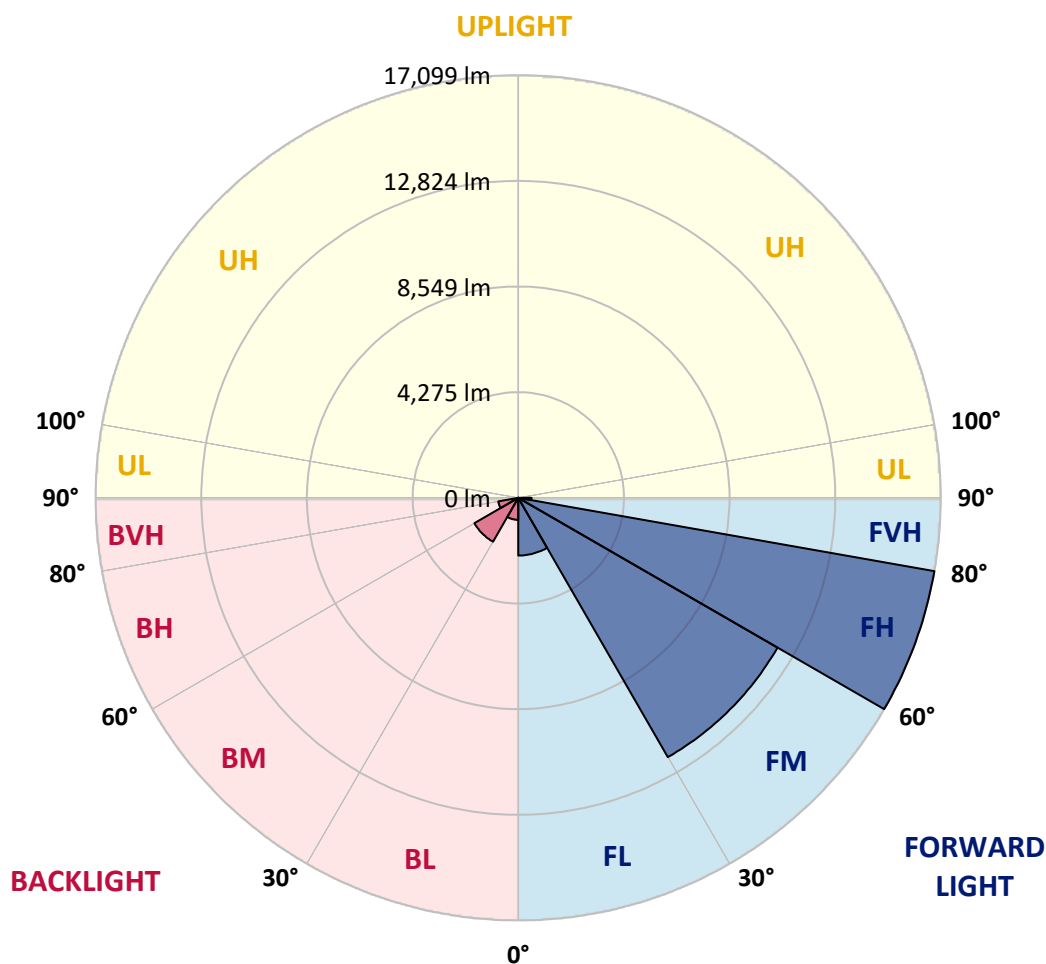
CATALOG NUMBER: NAV-SB6C-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2335.7	6.5			
FM	(30°-60°)	12114.2	33.8			
FH	(60°-80°)	17099.0	47.7			G5
FVH	(80°-90°)	540.1	1.5			G4/750
BL	(0°-30°)	892.4	2.5	B2/1000		
BM	(30°-60°)	2049.0	5.7	B2/2500		
BH	(60°-80°)	821.6	2.3	B2/1000		G2/1000
BVH	(80°-90°)	4.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



REPORT NUMBER: P970903

CATALOG NUMBER: NAV-SB6C-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2
2.5°	4290.3	4297.7	4292.8	4263.5	4214.5	4187.6	4172.9	4124.0	4092.1	4035.8	3977.1
5°	4684.5	4713.8	4696.7	4637.9	4545.0	4478.8	4459.3	4358.9	4268.4	4163.1	4040.8
7.5°	5103.0	5117.6	5085.8	5009.9	4885.2	4772.5	4755.4	4615.9	4471.5	4309.9	4143.6
10°	5465.2	5482.3	5433.3	5323.2	5181.3	5041.8	5017.3	4863.1	4691.7	4493.5	4280.6
12.5°	5768.6	5785.8	5722.2	5589.9	5433.3	5288.9	5264.5	5103.0	4914.5	4694.2	4429.8
15°	5998.7	6030.5	5944.9	5802.9	5634.0	5489.6	5477.4	5318.3	5134.7	4890.0	4608.5
17.5°	6133.3	6165.2	6084.4	5913.0	5768.6	5646.3	5631.6	5499.4	5328.2	5093.1	4782.3
20°	6155.3	6184.7	6099.1	5949.7	5829.8	5731.9	5724.6	5629.1	5504.4	5279.2	4970.7
22.5°	6089.2	6126.0	6047.7	5927.8	5844.5	5793.1	5783.4	5729.4	5658.5	5467.7	5147.0
25°	6020.7	6050.1	5991.3	5886.2	5842.1	5837.2	5844.5	5834.7	5820.1	5658.5	5352.5
27.5°	6015.8	6047.7	5981.6	5881.2	5856.7	5908.1	5915.5	5962.0	5974.2	5832.2	5550.8
30°	6057.4	6079.5	6015.8	5910.6	5898.4	6015.8	6018.3	6101.5	6121.1	5979.1	5746.7
32.5°	6148.0	6172.4	6108.8	5954.6	5937.5	6101.5	6108.8	6219.0	6250.8	6135.8	5952.2
35°	6360.9	6390.3	6316.9	6077.0	6015.8	6182.3	6204.3	6334.0	6397.6	6302.2	6165.2
37.5°	6892.0	6806.4	6706.1	6324.2	6194.5	6309.5	6346.3	6498.0	6610.5	6500.4	6419.7
40°	8211.2	7942.0	7628.7	6745.2	6507.8	6581.2	6610.5	6762.3	6916.5	6808.8	6769.6
42.5°	10191.2	9873.0	9368.8	7714.4	6980.1	7016.8	7038.9	7171.0	7388.8	7303.2	7313.0
45°	11955.8	11840.8	11326.8	9368.8	7863.7	7682.6	7709.4	7778.0	8098.6	8066.9	8130.4
47.5°	13311.7	13245.6	12849.1	11268.0	9356.6	8497.6	8573.4	8605.3	9067.8	9180.4	9351.7
50°	14354.3	14329.8	13975.0	12956.8	11307.2	9699.3	9726.2	9657.7	10350.2	10629.2	10954.8
52.5°	15338.2	15421.4	15159.5	14525.6	13390.0	11272.9	11268.0	10945.1	11880.0	12300.9	12856.5
55°	16226.6	16256.0	16282.9	16126.2	15485.0	13064.5	13018.0	12489.3	13654.3	14090.0	14692.0
57.5°	17061.2	17073.4	17313.3	17633.9	17665.7	14988.2	14902.6	14268.6	15592.7	15903.6	16273.1
60°	17621.7	17678.0	18184.5	19075.5	19464.5	16973.1	16926.5	16280.5	17565.3	17709.7	17641.3
62.5°	16814.0	17156.7	18434.2	20201.3	21163.1	19173.3	19151.3	18544.3	19640.8	19523.4	18936.0
65°	13610.3	14190.3	16437.1	20962.5	22829.8	21630.6	21662.5	21016.3	21772.5	21390.7	19988.3
67.5°	9520.6	10132.4	12790.4	21023.6	24692.4	24516.2	24699.7	23686.4	24036.5	23179.9	20238.0
70°	6583.7	6899.4	8629.7	19706.9	26143.6	28490.8	28485.9	26966.0	26288.1	23994.8	18965.3
72.5°	4427.5	4591.4	5604.7	15634.3	25076.6	30852.6	30710.6	29472.2	27046.8	22440.7	15494.8
75°	1867.4	1987.4	2594.3	8786.4	19839.1	28226.4	27842.2	26045.8	24031.5	17670.6	9667.4
77.5°	592.2	643.7	1023.1	3145.0	10927.8	21217.0	20810.7	16265.7	16106.6	8864.7	3534.1
80°	281.5	328.0	575.1	1262.9	4300.2	11539.8	11483.5	7379.1	6928.7	2393.6	709.7
82.5°	122.4	144.4	318.2	675.5	1923.7	4116.6	4199.8	2511.0	2077.9	908.0	217.8
85°	39.2	51.4	146.9	310.8	812.5	1023.1	1010.8	597.2	837.0	494.4	75.8
87.5°	0.0	0.0	49.0	70.9	83.2	58.7	66.1	51.4	232.5	137.0	27.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P970903

CATALOG NUMBER: NAV-SB6C-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2
2.5°	3947.8	3908.6	3840.1	3776.4	3720.1	3663.9	3629.5	3580.6	3575.7	3575.7	3588.0
5°	3974.6	3911.0	3788.7	3658.9	3509.6	3367.7	3225.8	3088.7	3044.7	3012.8	3027.5
7.5°	4053.0	3952.6	3759.3	3512.1	3228.2	2917.4	2699.5	2464.6	2374.0	2325.1	2332.4
10°	4165.6	4028.6	3734.8	3301.6	2841.5	2418.1	2107.3	1852.7	1754.8	1713.2	1713.2
12.5°	4290.3	4121.5	3690.7	3039.7	2418.1	1911.4	1608.0	1490.5	1475.8	1475.8	1475.8
15°	4439.7	4234.1	3614.9	2731.3	1975.1	1512.5	1404.9	1409.7	1424.4	1434.2	1434.2
17.5°	4593.8	4354.0	3494.9	2386.3	1583.5	1360.8	1363.2	1370.5	1382.8	1392.6	1392.6
20°	4760.3	4473.9	3335.9	2019.1	1358.3	1316.7	1324.1	1331.4	1341.2	1346.1	1348.6
22.5°	4939.0	4586.6	3147.5	1659.4	1282.5	1280.0	1282.5	1289.8	1302.1	1302.1	1307.0
25°	5129.8	4711.3	2932.0	1397.5	1243.3	1243.3	1248.2	1253.1	1262.9	1262.9	1265.4
27.5°	5325.7	4826.4	2704.5	1260.4	1209.1	1206.6	1206.6	1213.9	1218.8	1221.3	1223.7
30°	5541.0	4961.0	2476.8	1231.0	1182.1	1169.8	1162.6	1167.5	1172.3	1174.8	1179.7
32.5°	5761.3	5090.7	2273.7	1243.3	1155.2	1133.1	1108.7	1103.8	1103.8	1113.6	1120.9
35°	6006.1	5232.6	2117.0	1284.9	1140.5	1079.3	1040.2	1018.1	1020.6	1035.2	1042.6
37.5°	6299.8	5404.0	2002.0	1321.6	1130.7	1018.1	954.5	927.6	910.4	927.6	922.7
40°	6684.0	5656.1	1918.8	1350.9	1118.5	947.2	861.5	817.4	785.7	795.4	790.5
42.5°	7249.3	6052.5	1887.0	1353.4	1091.5	864.0	766.1	707.4	660.8	663.3	653.4
45°	8042.4	6679.1	2050.9	1321.6	1032.8	773.4	665.7	587.4	558.0	550.6	540.9
47.5°	9129.0	7592.0	2430.3	1255.5	947.2	685.3	567.8	501.7	479.7	467.5	460.1
50°	10585.3	8764.4	2851.2	1182.1	861.5	602.1	487.1	445.5	430.7	418.5	416.0
52.5°	12274.0	9953.8	3196.4	1108.7	775.8	528.7	435.6	411.1	398.9	389.2	386.7
55°	13823.3	10773.7	3176.8	1030.3	692.6	469.9	398.9	384.3	369.6	359.8	354.9
57.5°	14787.5	10888.7	2618.8	944.7	597.2	423.4	364.7	354.9	337.7	325.5	323.1
60°	15230.5	10232.8	1835.6	832.1	501.7	379.4	328.0	323.1	301.0	283.9	279.0
62.5°	15311.2	9014.0	1223.7	692.6	418.5	337.7	291.2	283.9	254.5	225.2	210.4
65°	14983.3	7271.4	846.9	540.9	357.3	293.7	249.7	234.9	203.2	173.7	164.0
67.5°	13945.5	5105.4	589.8	389.2	303.5	232.5	198.2	193.3	168.9	144.4	137.0
70°	12044.0	2910.0	394.0	291.2	239.8	159.1	156.6	161.5	137.0	117.5	107.7
72.5°	9234.2	1331.4	244.8	212.9	164.0	107.7	124.8	127.3	105.3	88.1	78.3
75°	5435.8	570.2	154.2	137.0	83.2	70.9	90.5	93.0	70.9	56.3	49.0
77.5°	1850.2	215.4	97.9	80.8	41.6	39.2	58.7	58.7	39.2	22.0	17.1
80°	421.0	80.8	49.0	31.8	19.6	17.1	19.6	17.1	9.8	2.5	0.0
82.5°	119.9	31.8	19.6	12.2	7.4	7.4	2.5	0.0	0.0	0.0	0.0
85°	34.2	14.7	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	2.5	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)