

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: P971425

Luminaire Tested: **NAV-SB6D-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-735-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52658.3 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

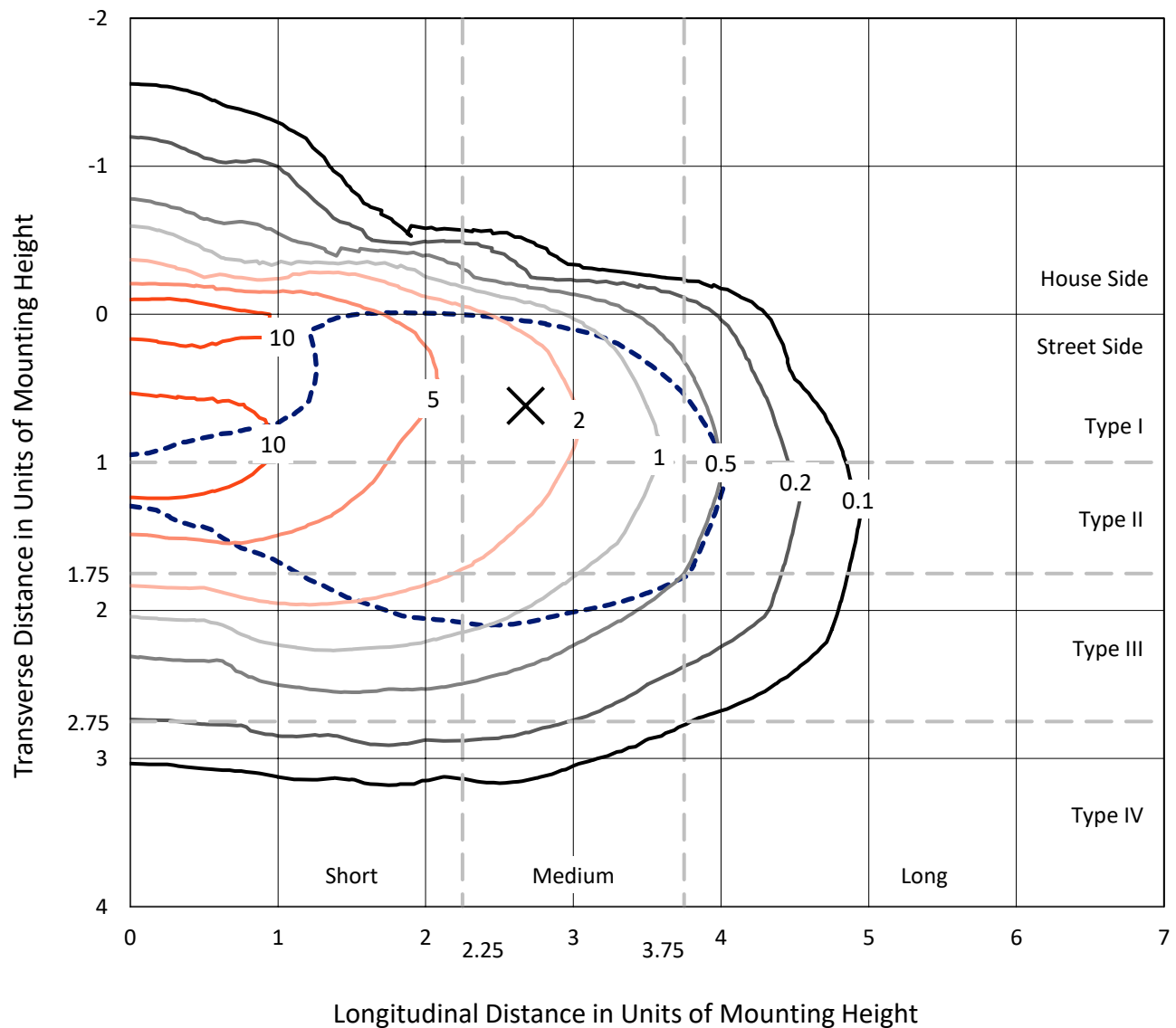
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P971425
CATALOG NUMBER: NAV-SB6D-735-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

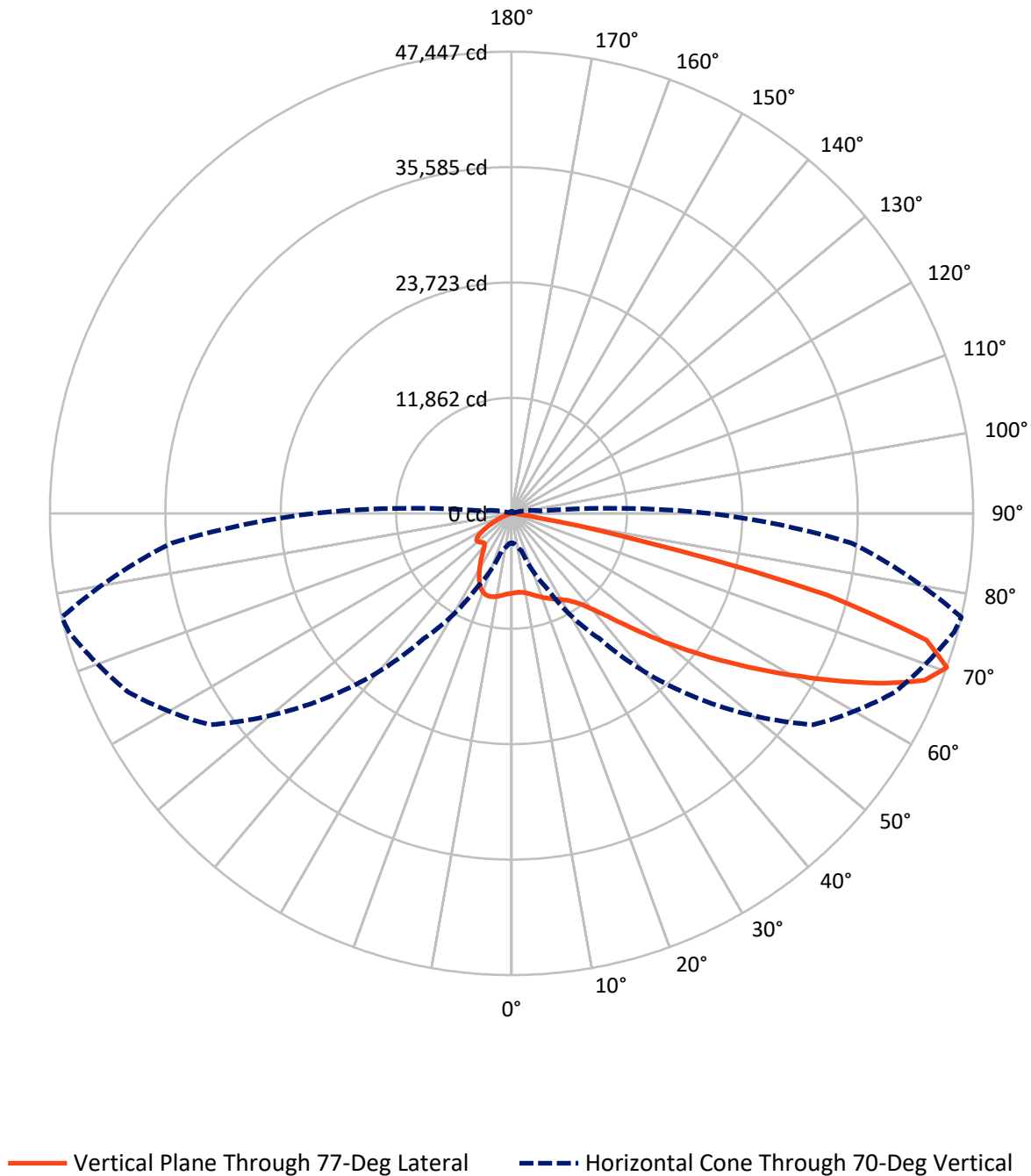
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
Type III - Medium - N/A

REPORT NUMBER: P971425
CATALOG NUMBER: NAV-SB6D-735-U-T3R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5550.9	0.0	5550.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	47107.4	0.0	47107.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	52658.3	0.0	52658.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.9	1.3
10°-20°	1680.5	3.2
20°-30°	2599.2	4.9
30°-40°	4716.4	9.0
40°-50°	8902.8	16.9
50°-60°	12863.8	24.4
60°-70°	13693.1	26.0
70°-80°	7256.4	13.8
80°-90°	238.3	0.5
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°	52658.3	100.0
0°-180°	52658.3	100.0

Coefficient of Utilization



REPORT NUMBER: P971425

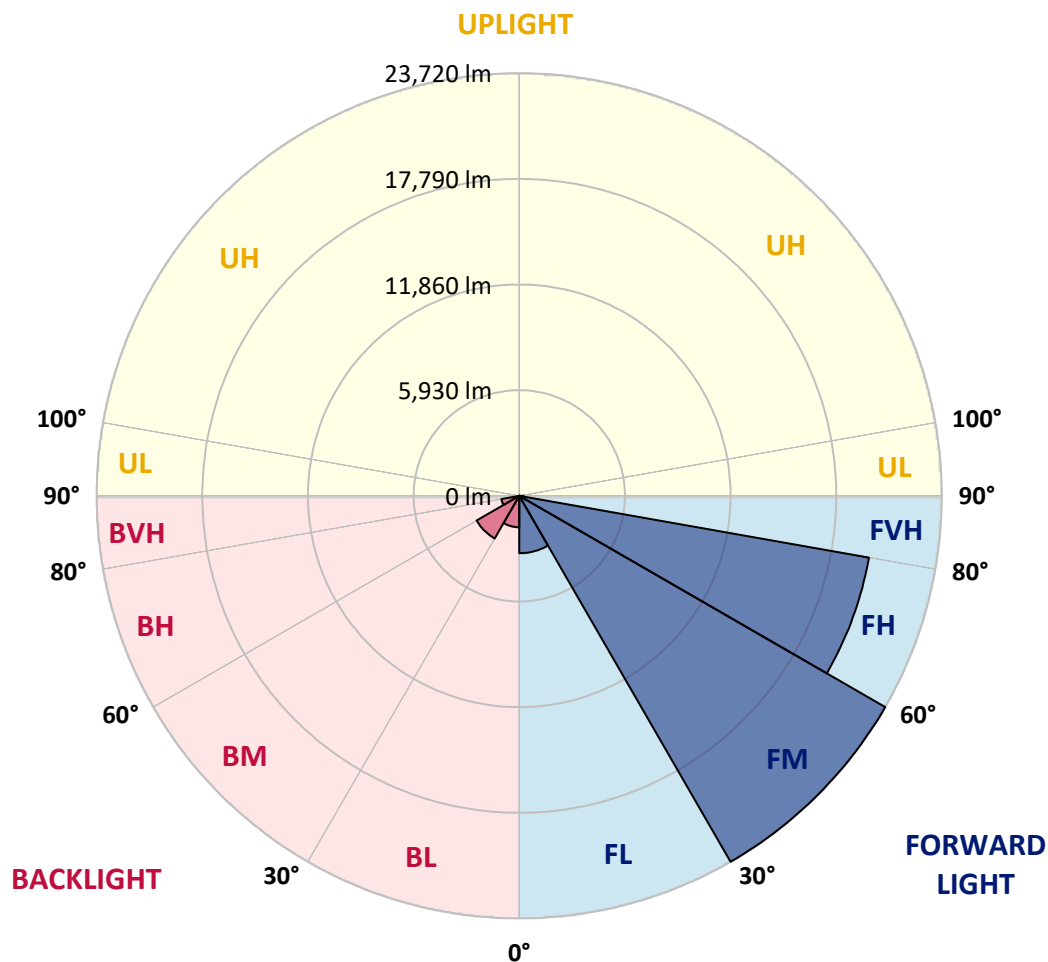
CATALOG NUMBER: NAV-SB6D-735-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3223.9	6.1			
FM	(30°-60°)	23719.7	45.0			
FH	(60°-80°)	19931.9	37.9			G5
FVH	(80°-90°)	231.9	0.4			G3/500
BL	(0°-30°)	1763.6	3.3	B3/2500		
BM	(30°-60°)	2763.3	5.2	B3/5000		
BH	(60°-80°)	1017.6	1.9	B3/2500		G3/2500
BVH	(80°-90°)	6.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



REPORT NUMBER: P971425

CATALOG NUMBER: NAV-SB6D-735-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	8213.7	8213.7	8213.7	8213.7	8213.7	8213.7	8213.7	8213.7	8213.7	8213.7	8213.7
2.5°	7711.6	7781.5	7771.4	7818.0	7834.7	7901.2	7967.6	8057.4	8157.3	8153.9	8220.4
5°	7276.0	7345.9	7362.5	7425.6	7505.5	7608.6	7744.9	7924.5	8110.6	8140.6	8273.6
7.5°	6760.6	6833.7	6876.9	7003.3	7149.6	7362.5	7585.2	7847.9	8157.3	8200.4	8456.5
10°	6245.1	6311.6	6368.1	6547.7	6780.5	7096.4	7458.9	7838.0	8253.6	8316.8	8679.3
12.5°	5925.8	5989.1	6052.2	6208.5	6497.9	6883.6	7375.8	7884.5	8413.3	8503.1	8981.9
15°	5812.8	5869.4	5919.3	6058.9	6328.2	6767.2	7359.1	7981.0	8616.2	8735.9	9347.7
17.5°	5829.5	5859.4	5892.6	5999.0	6261.7	6714.0	7389.0	8147.2	8855.6	8962.0	9713.5
20°	5925.8	5942.5	5945.8	6019.0	6251.8	6707.3	7448.9	8306.9	9081.7	9224.7	10076.0
22.5°	6048.9	6055.6	6048.9	6098.7	6314.9	6757.2	7528.7	8499.7	9334.4	9467.4	10441.8
25°	6624.2	6497.9	6338.2	6241.7	6421.3	6853.7	7648.4	8759.1	9610.4	9740.1	10797.6
27.5°	8409.9	8047.5	7475.5	6833.7	6640.9	6993.4	7814.7	9021.8	9889.7	10006.2	11180.0
30°	11309.7	10834.1	9863.2	8416.6	7345.9	7286.0	8030.9	9284.6	10185.7	10312.1	11589.1
32.5°	14216.1	14099.7	12979.1	10977.1	8932.1	7937.7	8390.0	9640.3	10578.1	10677.8	12141.0
35°	17155.7	16919.7	16001.9	14023.2	11376.2	9264.6	8988.5	10105.9	11093.6	11206.6	12945.9
37.5°	19407.0	19264.1	18695.4	17065.9	14276.0	11313.0	10012.8	10827.5	11841.7	11968.1	13976.7
40°	21395.6	21329.1	21136.3	20062.2	17518.3	13993.3	11605.7	11944.8	12879.3	13029.0	15240.3
42.5°	22958.6	23114.9	23224.7	22925.4	20860.3	17052.7	13747.2	13514.4	14325.8	14478.8	16849.9
45°	24558.1	24611.3	25053.6	25485.9	24179.0	20251.7	16161.5	15353.4	16124.9	16314.4	18778.6
47.5°	25585.6	25798.5	26576.6	27338.2	26969.1	23424.1	18755.2	17524.9	18209.9	18565.7	20940.0
50°	25662.1	26064.5	27135.3	28462.1	29000.8	26443.7	21575.2	19999.0	20727.2	21119.6	23247.9
52.5°	24388.5	25013.7	26673.1	28615.1	30098.2	29000.8	24491.7	22473.1	23407.5	23919.6	25642.2
55°	18698.8	19516.8	24933.8	27783.8	30141.5	30939.5	27331.5	25050.3	26393.7	26972.4	28229.3
57.5°	16291.1	16703.5	19603.2	26340.6	29340.0	31721.1	29898.7	27504.4	29642.7	30360.9	30673.5
60°	13554.4	14096.4	16440.8	23979.5	28252.7	31797.5	32166.7	30670.3	33164.3	33972.3	32914.9
62.5°	9211.4	9799.9	12131.1	19922.5	26766.2	31761.0	34025.6	33929.1	37078.2	37946.2	34813.7
65°	5706.4	6075.5	7611.9	16267.9	24687.8	31800.8	35970.9	37886.4	41208.4	42089.7	36283.5
67.5°	4509.3	4678.8	5480.3	12490.2	21106.4	30903.0	37912.9	41607.5	45095.8	45794.1	36732.4
70°	3029.5	3132.5	3987.1	8373.3	15702.6	26759.6	37876.4	43476.4	47097.7	47446.8	35096.3
72.5°	1596.2	1676.0	2331.2	3877.5	9484.0	19021.3	31927.2	41241.7	45105.8	44580.4	29998.5
75°	798.1	931.1	1569.6	1968.6	4050.4	10608.0	19826.1	32515.8	35502.0	33466.9	19247.4
77.5°	605.3	731.5	1296.9	1296.9	1410.0	3571.5	8396.7	17734.3	16357.7	13620.8	5649.9
80°	385.7	498.8	1134.0	981.0	588.6	907.8	2188.1	4968.2	3475.1	2643.7	1027.6
82.5°	226.1	325.8	944.4	648.4	329.2	335.9	618.5	1057.5	901.2	701.6	315.9
85°	89.8	212.8	648.4	256.0	129.7	83.1	186.2	226.1	186.2	139.7	79.8
87.5°	0.0	49.9	113.1	0.0	9.9	6.7	13.3	16.6	16.6	13.3	26.6
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: P971425

CATALOG NUMBER: NAV-SB6D-735-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8213.7	8213.7	8213.7	8213.7	8213.7	8213.7	8213.7	8213.7	8213.7	8213.7	8213.7
2.5°	8250.3	8257.0	8277.0	8280.3	8233.7	8173.9	8150.6	8140.6	8100.7	8097.4	8104.1
5°	8350.1	8380.0	8350.1	8263.7	8057.4	7768.2	7548.7	7369.1	7206.2	7156.2	7126.3
7.5°	8549.6	8579.6	8489.8	8150.6	7631.8	7056.5	6537.8	6171.9	5842.7	5719.7	5669.8
10°	8835.6	8875.5	8592.9	7907.8	6990.0	6065.5	5187.6	4569.1	4086.9	3890.7	3807.6
12.5°	9194.8	9211.4	8649.4	7538.7	6155.3	4835.1	3591.4	2929.7	2500.7	2341.1	2291.2
15°	9590.5	9567.1	8656.0	7036.5	5018.0	3418.5	2344.4	1925.4	1752.4	1699.2	1699.2
17.5°	10006.2	9909.7	8523.0	6311.6	3771.0	2337.7	1739.2	1639.4	1609.5	1596.2	1592.8
20°	10415.1	10199.1	8280.3	5363.9	2706.9	1745.9	1579.5	1549.6	1533.0	1526.3	1519.7
22.5°	10787.6	10418.5	7864.6	4263.2	1965.3	1543.0	1493.1	1466.5	1436.5	1423.3	1419.9
25°	11150.1	10544.9	7279.3	3235.6	1573.0	1443.2	1403.3	1353.4	1313.5	1296.9	1290.3
27.5°	11502.6	10624.6	6547.7	2394.3	1403.3	1350.1	1276.9	1207.1	1177.2	1170.6	1163.9
30°	11878.3	10651.3	5716.3	1785.8	1300.2	1233.7	1127.3	1047.6	1030.8	1034.2	1034.2
32.5°	12337.2	10691.2	4878.4	1463.2	1213.8	1094.1	967.7	884.6	871.2	884.6	881.2
35°	12886.0	10771.0	4070.3	1346.7	1137.2	951.1	814.8	744.9	731.5	741.6	738.2
37.5°	13630.9	10900.7	3315.5	1323.5	1074.1	831.4	685.0	628.5	628.5	631.8	628.5
40°	14621.8	11246.5	2640.4	1306.9	1040.9	741.6	578.6	555.3	565.3	571.9	571.9
42.5°	15829.0	11981.4	2184.8	1286.9	1004.3	701.6	525.4	515.5	532.1	538.7	538.7
45°	17182.4	12912.5	2025.2	1253.7	971.0	728.3	502.1	488.8	508.8	512.1	515.5
47.5°	18582.3	13823.7	2005.2	1217.1	937.8	768.1	495.5	465.6	488.8	492.2	495.5
50°	19999.0	14419.0	2025.2	1160.6	884.6	768.1	498.8	442.3	462.3	472.2	475.5
52.5°	21425.6	14691.6	2011.9	1037.5	791.4	721.6	498.8	422.3	442.3	449.0	449.0
55°	22808.9	14638.4	1809.0	854.6	671.7	638.5	485.5	405.7	419.0	422.3	422.3
57.5°	23903.0	13896.8	1433.3	665.1	545.4	532.1	442.3	385.7	395.8	392.4	392.4
60°	24474.9	12267.4	1024.2	512.1	429.0	419.0	389.1	359.2	365.8	349.2	345.8
62.5°	24481.6	10112.5	685.0	405.7	342.6	332.5	332.5	322.6	315.9	282.7	272.6
65°	23959.6	7721.6	455.6	322.6	276.0	259.4	279.3	276.0	252.8	206.1	199.6
67.5°	22775.7	5061.2	345.8	252.8	212.8	202.8	222.8	232.8	216.2	172.9	169.6
70°	20341.5	2946.3	286.0	196.2	159.6	149.6	179.6	199.6	179.6	139.7	133.0
72.5°	16896.4	1589.6	232.8	146.3	109.8	99.7	143.0	163.0	143.0	103.1	99.7
75°	10963.9	851.3	179.6	96.5	56.6	63.1	106.4	119.7	99.7	66.5	59.9
77.5°	3681.2	375.8	113.1	46.5	26.6	26.6	63.1	73.2	46.5	23.3	20.0
80°	821.3	156.3	46.5	20.0	9.9	9.9	13.3	13.3	6.7	0.0	0.0
82.5°	269.4	63.1	20.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	103.1	23.3	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	39.9	3.3	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)