

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: P971424

Luminaire Tested: **NAV-SB6D-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-735-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49605.9 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
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

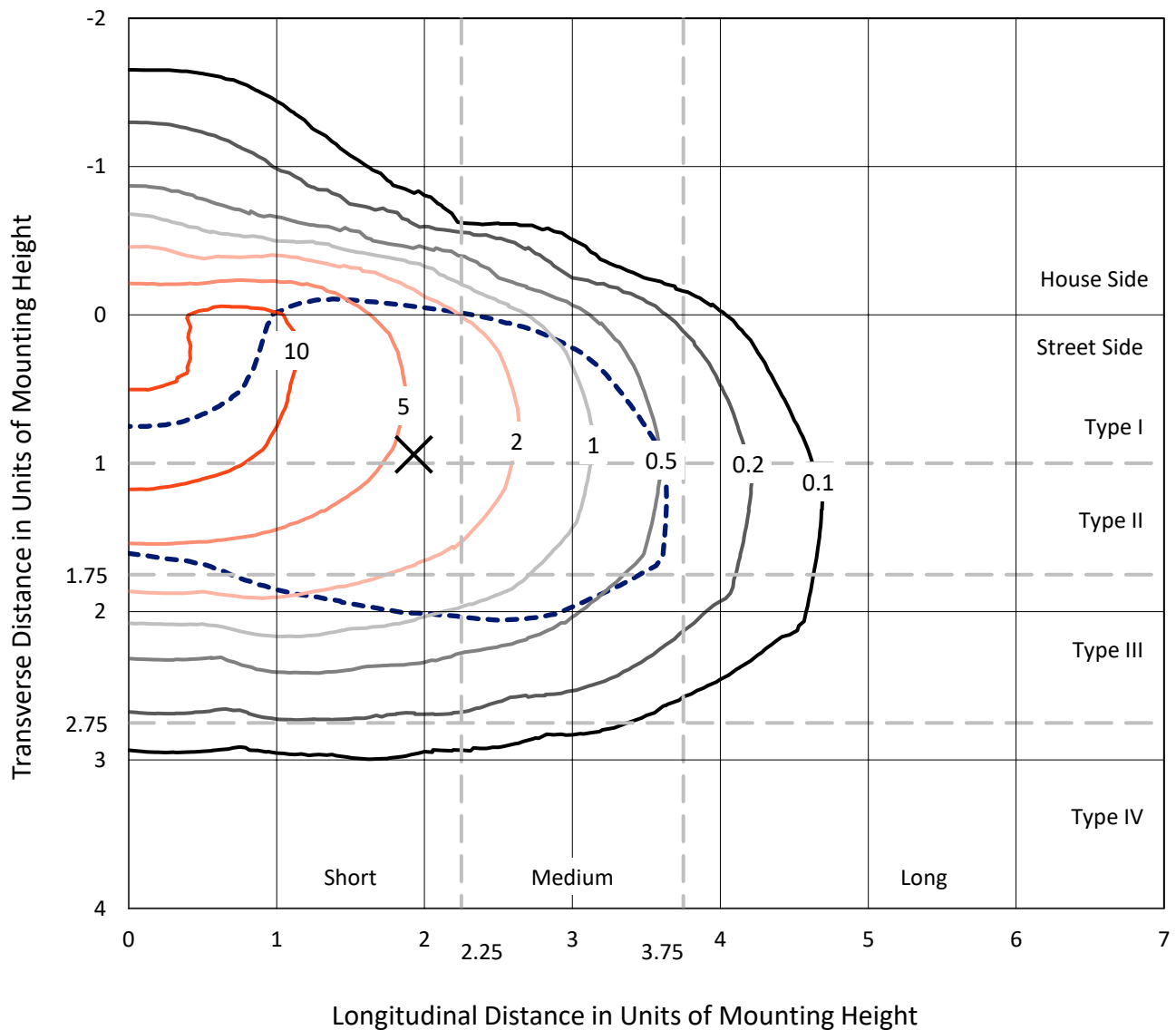


REPORT NUMBER: P971424

CATALOG NUMBER: NAV-SB6D-735-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

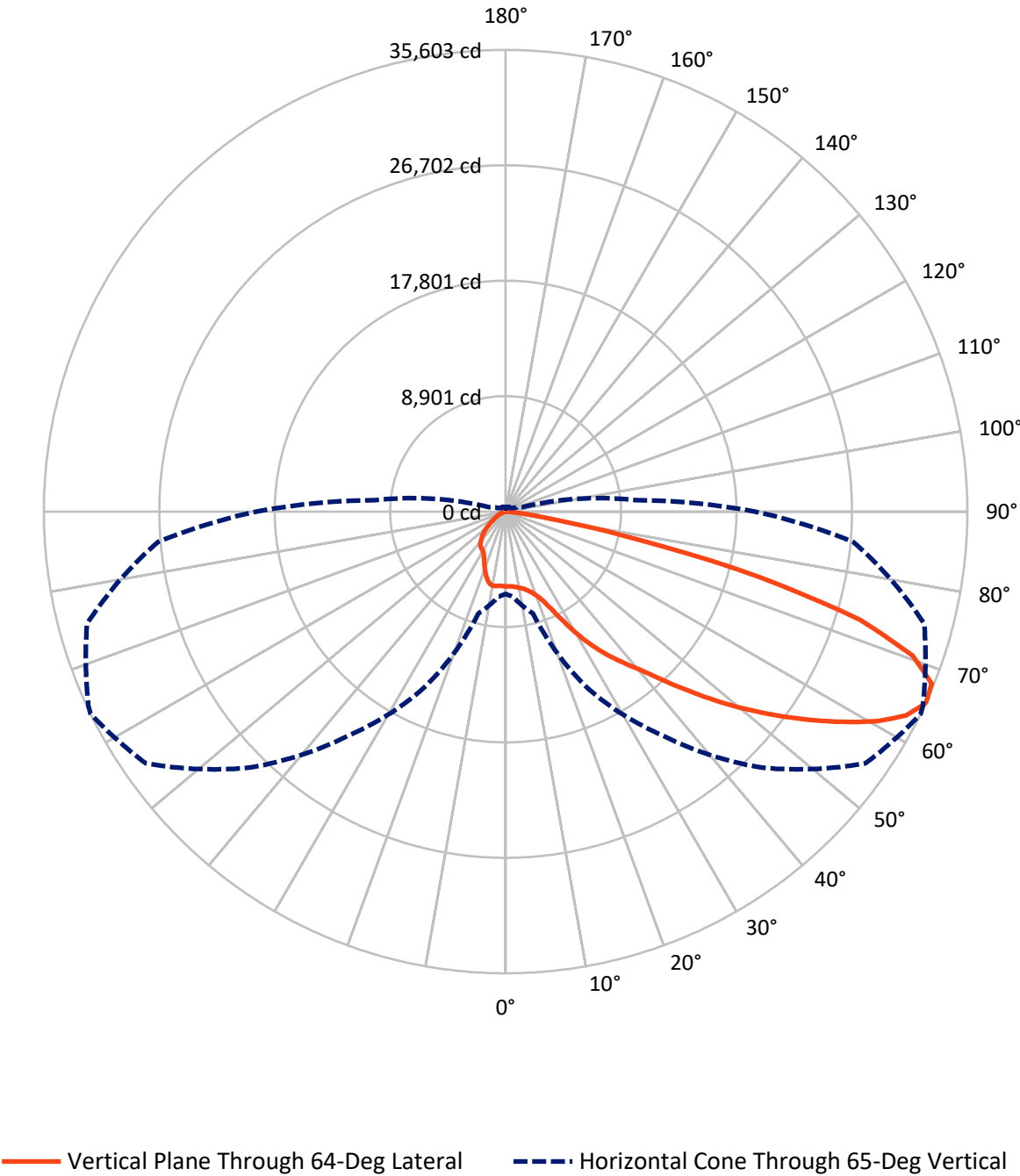
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
Type III - Short - N/A

REPORT NUMBER: P971424
CATALOG NUMBER: NAV-SB6D-735-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P971424

CATALOG NUMBER: NAV-SB6D-735-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6633.8	0.0	6633.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	42972.1	0.0	42972.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	49605.9	0.0	49605.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.3	1.1
10°-20°	1443.8	2.9
20°-30°	2735.8	5.5
30°-40°	5536.1	11.2
40°-50°	9430.7	19.0
50°-60°	12825.0	25.9
60°-70°	12043.3	24.3
70°-80°	4825.1	9.7
80°-90°	233.8	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°	49605.9	100.0
0°-180°	49605.9	100.0

Coefficient of Utilization



REPORT NUMBER: P971424

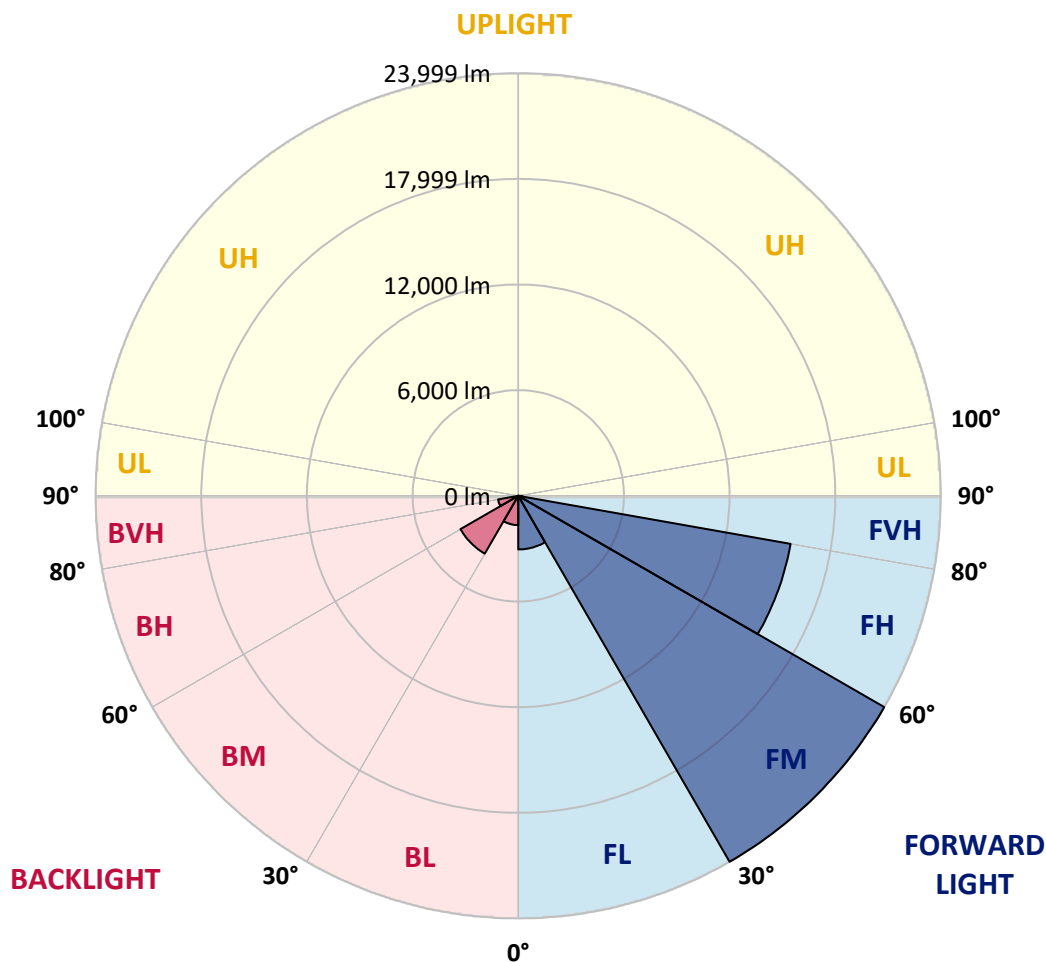
CATALOG NUMBER: NAV-SB6D-735-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3046.4	6.1			
FM	(30°-60°)	23999.3	48.4			
FH	(60°-80°)	15704.1	31.7			G5
FVH	(80°-90°)	222.3	0.4			G2/225
BL	(0°-30°)	1665.6	3.4	B3/2500		
BM	(30°-60°)	3792.5	7.6	B3/5000		
BH	(60°-80°)	1164.3	2.3	B3/2500		G3/2500
BVH	(80°-90°)	11.4	0.0			G1/100
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 Short



REPORT NUMBER: P971424

CATALOG NUMBER: NAV-SB6D-735-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7
2.5°	5749.7	5789.6	5779.7	5769.7	5766.3	5773.0	5776.3	5773.0	5773.0	5773.0	5776.3
5°	5640.0	5673.3	5673.3	5696.5	5729.7	5769.7	5799.7	5806.2	5812.9	5822.9	5819.5
7.5°	5430.4	5457.1	5477.1	5553.6	5636.7	5743.1	5832.9	5879.4	5886.1	5922.7	5936.0
10°	5287.5	5320.8	5354.0	5433.8	5553.6	5713.1	5866.1	5979.2	5995.8	6082.2	6122.2
12.5°	5280.8	5314.1	5357.4	5443.8	5583.5	5753.0	5939.3	6102.2	6132.2	6258.5	6341.7
15°	5350.7	5390.6	5430.4	5536.9	5686.5	5892.7	6092.3	6295.1	6325.1	6504.6	6594.4
17.5°	5493.7	5546.9	5576.8	5683.2	5842.8	6072.3	6335.0	6567.8	6594.4	6804.0	6917.0
20°	5776.3	5839.5	5849.5	5936.0	6092.3	6338.3	6650.9	6940.3	6973.5	7212.9	7339.3
22.5°	6361.7	6451.5	6371.6	6414.9	6554.5	6800.6	7139.7	7505.6	7552.1	7824.8	7937.9
25°	7392.5	7518.9	7312.7	7239.6	7299.4	7555.5	7981.2	8443.3	8496.5	8716.1	8772.6
27.5°	9417.7	9254.7	8942.2	8636.2	8456.7	8602.9	9081.8	9653.9	9720.4	9933.2	9866.6
30°	11642.5	11499.5	11077.1	10398.7	9973.0	9949.8	10392.1	11030.5	11107.0	11310.0	11107.0
32.5°	13870.5	13734.2	13275.3	12440.5	11702.3	11336.5	11642.5	12350.7	12390.7	12520.4	12221.1
35°	16062.0	15922.4	15463.5	14608.8	13700.9	12869.6	12809.7	13607.8	13621.1	13757.4	13311.9
37.5°	18266.7	18150.4	17661.6	16823.5	15929.0	14781.7	14226.4	14798.3	14814.9	14948.0	14485.7
40°	19839.7	19889.6	19553.7	18905.3	18137.1	16883.4	15816.0	16065.3	15965.6	16188.3	15912.3
42.5°	21189.8	21289.7	20997.0	20671.1	20225.5	19121.4	17784.6	17741.3	17581.7	17701.4	17415.5
45°	22357.1	22440.2	22177.5	22101.0	22091.1	21316.2	19936.1	19676.8	19454.0	19430.7	19088.2
47.5°	22786.1	22945.8	23058.8	23314.9	23813.6	23487.8	22160.9	21758.5	21509.1	21326.3	20784.1
50°	22949.0	23118.7	23504.4	24249.2	25429.8	25569.5	24375.6	23923.4	23617.4	23284.9	22486.8
52.5°	22729.6	23032.2	23550.9	24804.7	26517.3	27238.9	26500.7	26104.9	25755.7	25213.7	24029.8
55°	21435.9	21738.6	22799.4	24798.0	27059.3	28409.4	28509.2	28332.9	27940.6	27085.9	25276.8
57.5°	18709.0	19158.0	20837.3	23953.3	27049.3	29417.1	30477.9	30604.2	30165.3	28941.5	26257.8
60°	14931.4	15539.9	17588.4	22081.1	26214.7	29962.4	32203.8	32835.7	32370.1	30770.5	27052.6
62.5°	10418.7	11123.7	13062.4	19148.0	24305.8	29570.0	33464.2	34631.4	34278.9	32406.6	27358.6
65°	6355.0	6581.1	8144.0	15067.7	21060.2	27927.3	33853.2	35602.5	35486.0	33407.6	26906.4
67.5°	4233.4	4422.9	4871.8	10332.2	16348.0	24645.0	32922.1	35432.8	35466.1	33244.6	25250.3
70°	2550.6	2713.6	3006.2	6009.2	10594.9	19507.2	30039.0	33271.3	33464.2	31066.5	22111.0
72.5°	1050.8	1160.6	1426.6	2723.5	5487.0	12380.7	23920.1	28565.7	29014.7	26121.5	16969.8
75°	595.2	651.8	838.0	1366.7	2381.1	5769.7	14489.1	20278.7	20940.4	18004.0	10209.2
77.5°	395.8	422.3	542.0	884.6	1340.2	1968.7	6192.0	10565.0	11828.7	9833.4	4419.5
80°	266.0	289.4	372.5	591.9	871.2	844.7	1972.0	3914.1	4815.2	3378.7	1077.5
82.5°	179.6	182.9	266.0	389.1	552.1	409.1	582.0	1217.1	1529.7	977.6	409.1
85°	103.1	99.7	196.2	226.1	246.1	169.6	176.3	365.8	478.9	412.4	232.8
87.5°	13.3	20.0	76.5	59.9	33.2	36.6	36.6	63.1	93.1	99.7	49.9
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: P971424

CATALOG NUMBER: NAV-SB6D-735-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7
2.5°	5776.3	5773.0	5763.1	5753.0	5729.7	5716.4	5723.1	5716.4	5713.1	5716.4	5729.7
5°	5819.5	5809.6	5782.9	5749.7	5703.2	5646.6	5610.0	5556.8	5507.0	5477.1	5483.6
7.5°	5936.0	5925.9	5889.4	5796.3	5646.6	5410.6	5194.4	5004.9	4861.8	4778.7	4782.0
10°	6122.2	6105.5	6049.0	5842.8	5450.4	4935.0	4506.0	4150.2	3917.4	3807.7	3797.7
12.5°	6341.7	6321.7	6222.0	5799.7	5078.0	4273.2	3681.3	3285.5	3069.4	2973.0	2963.0
15°	6601.0	6574.5	6378.3	5593.4	4535.9	3541.6	2999.6	2703.6	2563.9	2477.4	2480.8
17.5°	6923.6	6877.0	6494.6	5284.2	3947.4	2983.0	2580.5	2357.7	2234.7	2151.6	2144.9
20°	7342.6	7266.1	6587.8	4915.1	3405.3	2630.5	2297.8	2111.7	2018.5	1945.3	1932.1
22.5°	7927.9	7818.2	6700.8	4515.9	3022.8	2387.6	2088.4	1952.0	1875.5	1792.4	1779.1
25°	8652.8	8523.2	6840.4	4146.8	2760.1	2178.2	1935.4	1822.3	1732.6	1636.1	1626.2
27.5°	9667.1	9434.3	7006.8	3844.3	2534.0	1998.6	1795.8	1669.4	1566.3	1486.5	1469.8
30°	10797.8	10415.3	7153.1	3661.3	2327.8	1832.3	1612.8	1486.5	1390.0	1333.5	1323.6
32.5°	11868.6	11349.8	7249.5	3581.6	2141.6	1642.8	1413.4	1276.9	1203.9	1187.2	1197.2
35°	12879.5	12194.5	7239.6	3505.1	1975.3	1453.2	1217.1	1077.5	1020.9	1030.9	1030.9
37.5°	14043.4	13095.7	7169.7	3385.4	1839.0	1280.3	1047.6	924.4	874.6	877.9	891.2
40°	15396.9	14136.6	7126.5	3159.2	1689.3	1120.6	907.8	808.1	771.5	758.2	754.9
42.5°	16840.1	15144.2	7133.1	2903.1	1503.1	977.6	811.4	728.3	695.1	685.0	681.7
45°	18290.1	16105.2	7143.1	2637.1	1306.9	868.0	741.6	671.8	651.8	638.5	638.5
47.5°	19653.5	16923.3	6956.9	2351.1	1114.1	784.8	685.0	638.5	621.9	605.3	605.3
50°	20923.8	17468.7	6507.9	2018.5	961.0	718.3	641.9	608.5	591.9	575.3	575.3
52.5°	21911.5	17555.2	5766.3	1676.1	854.6	668.4	615.2	585.3	565.3	548.7	545.4
55°	22350.4	17013.1	4712.2	1356.8	771.5	625.1	588.7	558.7	535.4	518.8	515.5
57.5°	22237.4	15872.4	3674.6	1090.7	691.7	582.0	555.3	535.4	508.8	482.2	478.9
60°	21682.0	14346.1	2770.1	907.8	618.6	535.4	518.8	502.1	465.6	425.7	419.0
62.5°	20721.0	12427.3	1975.3	751.5	538.7	482.2	475.5	462.3	409.1	335.9	329.2
65°	19251.1	10096.1	1330.1	625.1	462.3	422.3	425.7	402.4	332.5	249.4	242.7
67.5°	17102.8	7382.6	851.4	512.1	385.7	352.5	355.8	342.6	282.7	212.8	202.8
70°	14366.0	4888.4	555.3	389.1	309.2	272.6	292.6	295.9	239.4	172.9	166.3
72.5°	10531.8	2886.5	389.1	289.4	226.1	189.5	239.4	246.1	192.9	129.7	123.0
75°	6002.5	1370.1	292.6	209.5	139.7	133.0	186.2	186.2	133.0	86.5	79.8
77.5°	2520.7	571.9	206.2	136.3	79.8	76.5	126.4	116.4	66.5	39.9	39.9
80°	728.3	256.0	109.8	66.5	33.2	29.9	49.9	36.6	16.6	6.7	6.7
82.5°	286.0	113.1	43.3	26.6	13.3	13.3	6.7	0.0	0.0	0.0	0.0
85°	169.6	46.5	20.0	9.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	43.3	9.9	6.7	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)