

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: P969900

Luminaire Tested: **NAV-SB6A-750-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-750-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24976.2 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 170.9
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

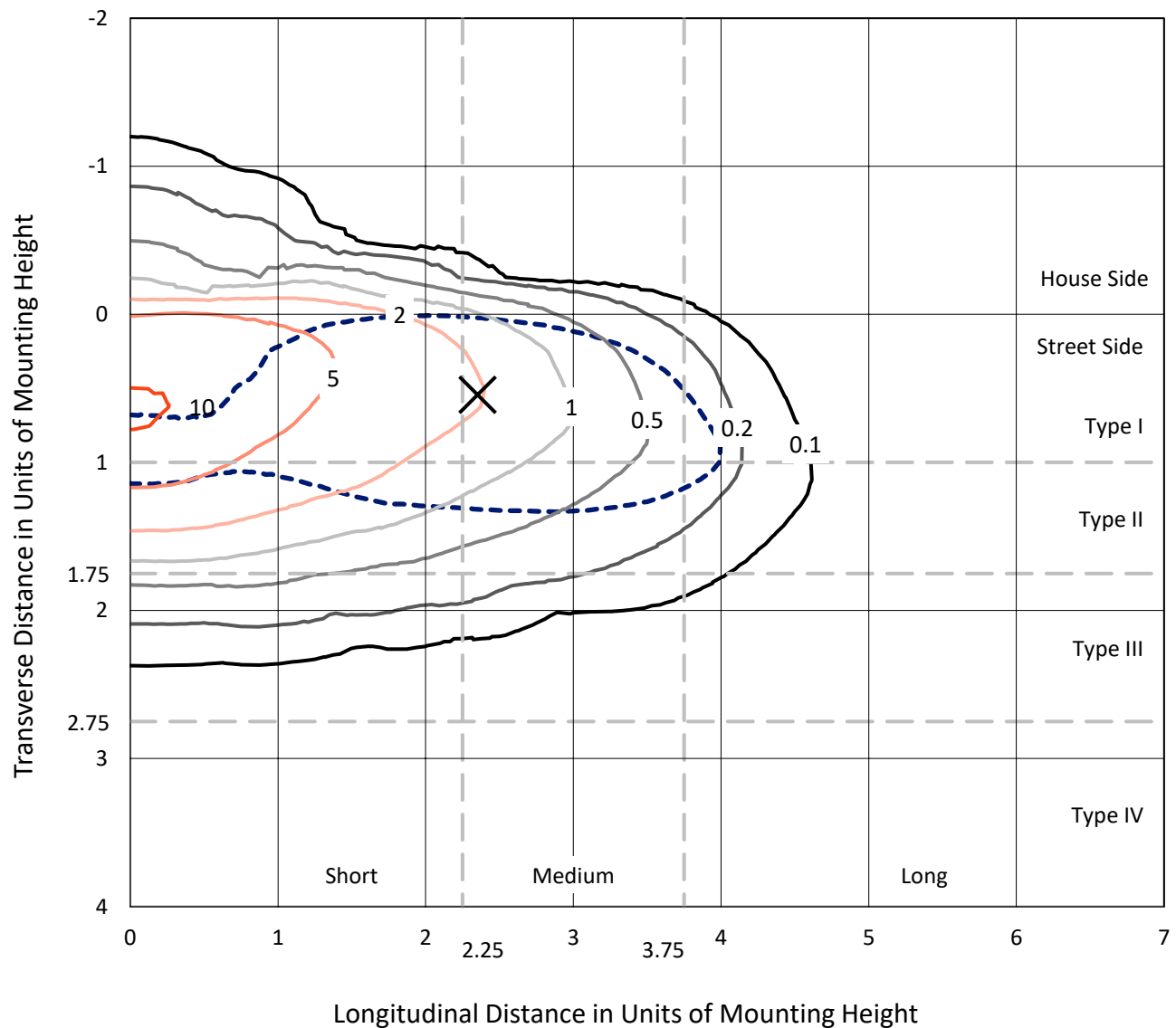


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Iso-Footcandle Lines of Horizontal Illumination

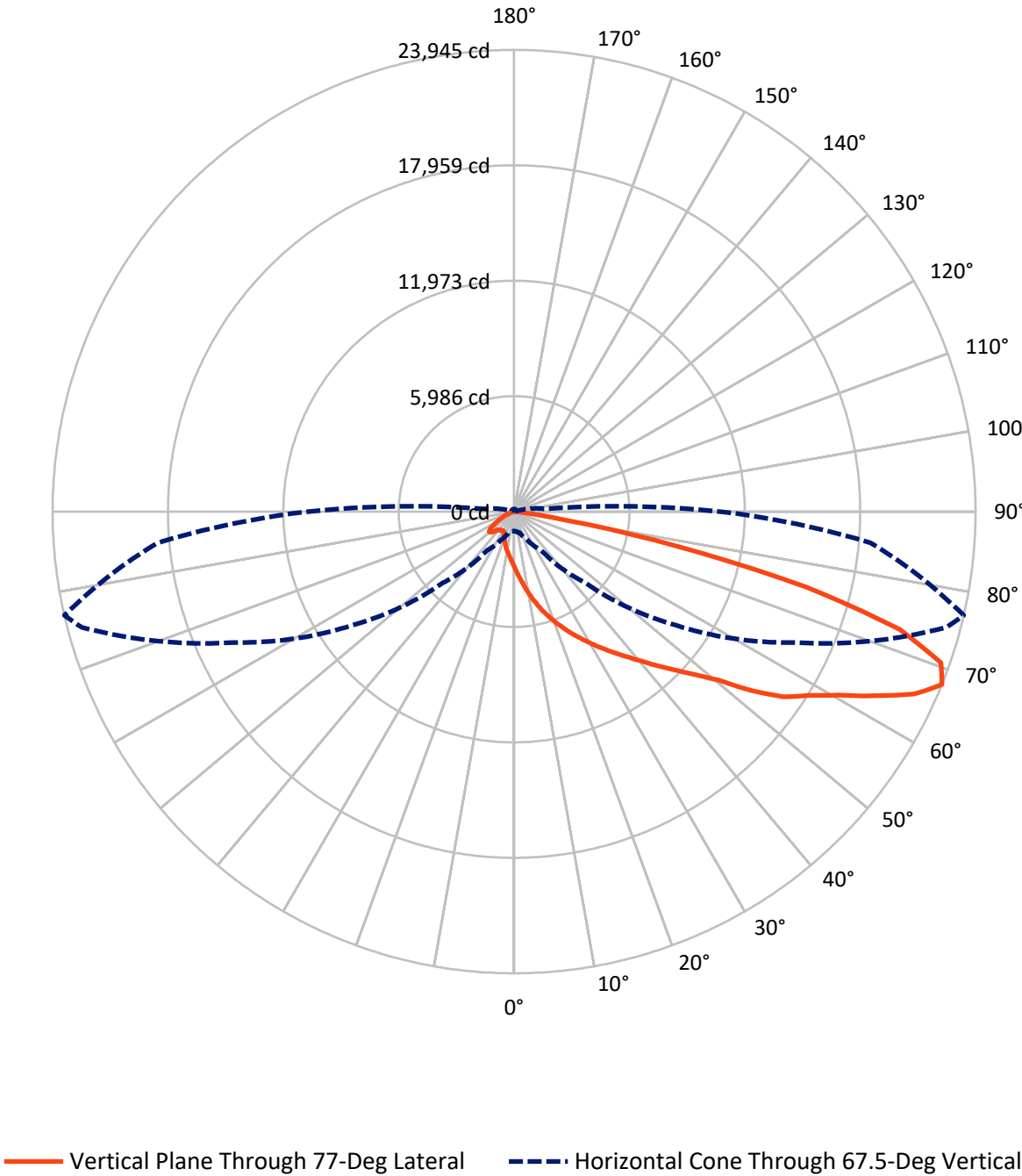
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	1837.5	0.0	1837.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	23138.7	0.0	23138.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	24976.2	0.0	24976.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.0	1.2
10°-20°	1029.4	4.1
20°-30°	1986.5	8.0
30°-40°	3448.7	13.8
40°-50°	5007.3	20.0
50°-60°	5750.3	23.0
60°-70°	4992.3	20.0
70°-80°	2351.4	9.4
80°-90°	116.3	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°	24976.2	100.0
0°-180°	24976.2	100.0

Coefficient of Utilization



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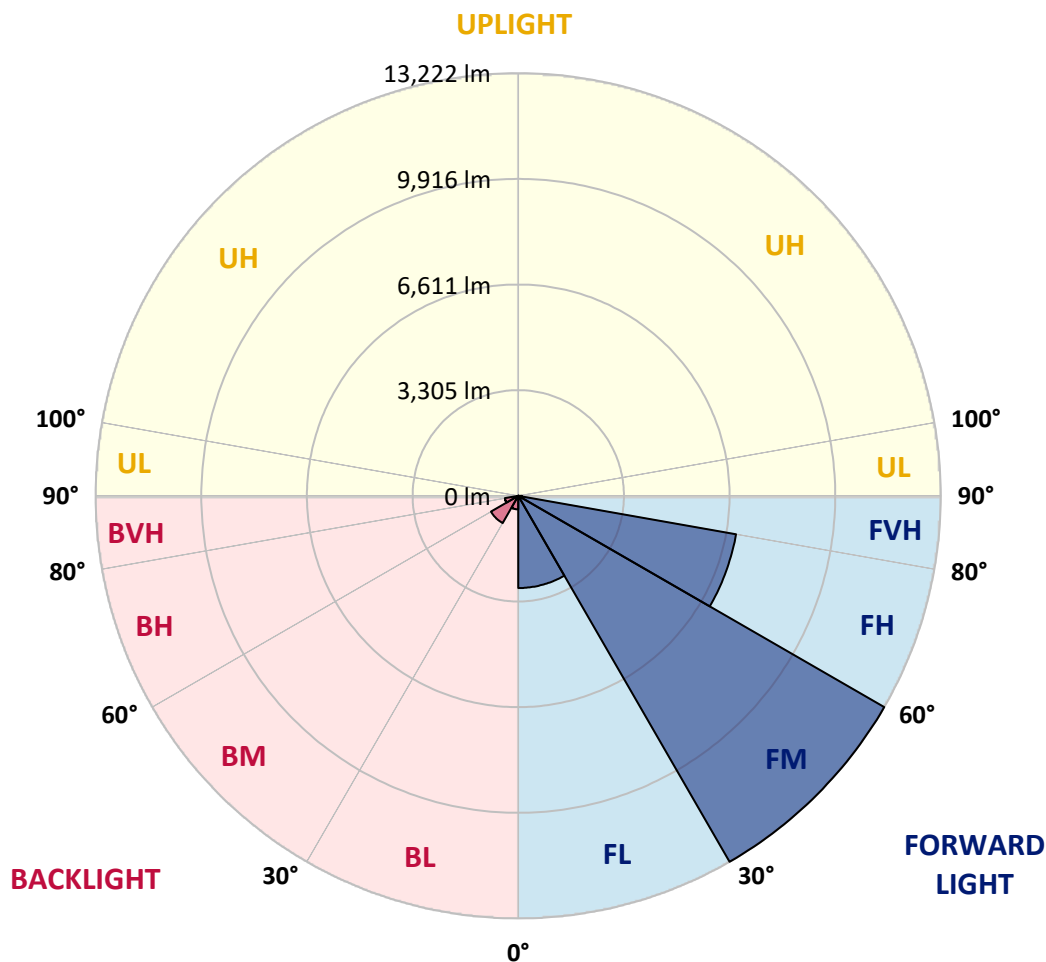
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2884.5	11.5			
FM	(30°-60°)	13221.7	52.9			
FH	(60°-80°)	6918.3	27.7			G3/7500
FVH	(80°-90°)	114.1	0.5			G2/225
BL	(0°-30°)	425.4	1.7	B1/500		
BM	(30°-60°)	984.6	3.9	B1/1000		
BH	(60°-80°)	425.4	1.7	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1
2.5°	3987.5	4012.4	3976.7	3908.4	3806.0	3739.3	3576.5	3423.0	3252.3	3198.1	3027.4
5°	4860.7	4882.4	4842.1	4767.6	4631.2	4500.9	4286.9	3965.8	3632.3	3525.3	3222.9
7.5°	5507.4	5519.8	5504.4	5436.1	5305.8	5158.5	4919.6	4539.6	4044.9	3927.0	3463.3
10°	5972.7	6013.1	6008.3	5982.0	5895.2	5775.8	5521.4	5088.7	4507.0	4355.1	3734.7
12.5°	6281.4	6326.3	6352.7	6411.7	6407.0	6331.0	6107.7	5650.1	4967.7	4789.3	4040.2
15°	6371.3	6419.4	6520.2	6656.7	6777.7	6816.5	6659.8	6200.7	5474.8	5246.9	4353.5
17.5°	6320.2	6394.6	6515.5	6731.2	6996.3	7171.6	7154.5	6732.7	5935.5	5674.9	4660.6
20°	6433.3	6504.6	6599.3	6780.8	7089.4	7407.4	7534.6	7241.4	6393.0	6120.1	4983.2
22.5°	7059.9	7047.5	7056.8	7086.3	7270.8	7585.7	7847.8	7703.6	6845.9	6566.8	5324.5
25°	8052.5	7996.7	7902.1	7742.3	7695.8	7847.8	8120.8	8113.1	7323.6	7024.2	5673.4
27.5°	9191.0	9181.6	8959.8	8575.3	8358.1	8299.1	8429.4	8511.6	7796.7	7477.2	6023.9
30°	10281.3	10306.1	10006.8	9578.7	9180.1	8949.0	8831.1	8890.0	8277.4	7965.7	6385.2
32.5°	11230.4	11256.9	10931.1	10430.2	9937.0	9657.8	9409.6	9263.8	8801.7	8462.0	6782.3
35°	12032.3	12058.6	11684.9	11131.2	10605.4	10352.6	10071.9	9673.3	9328.9	9012.6	7224.3
37.5°	12748.8	12741.1	12240.1	11681.8	11165.3	10965.2	10817.8	10177.3	9871.8	9566.3	7714.5
40°	13172.3	13204.8	12776.7	12161.0	11660.1	11514.2	11505.0	10802.4	10498.4	10202.1	8251.0
42.5°	13296.3	13353.7	13043.5	12537.9	12083.5	11925.3	12168.8	11478.6	11227.3	10938.9	8857.5
45°	13073.0	13128.8	12987.7	12637.1	12372.0	12269.6	12739.5	12179.7	12005.9	11720.6	9541.4
47.5°	12421.6	12491.4	12525.5	12451.1	12447.9	12551.8	13251.3	12917.9	12930.3	12638.8	10334.0
50°	11160.6	11278.5	11591.8	11855.5	12263.4	12775.2	13749.2	13718.2	13972.5	13721.3	11366.9
52.5°	8868.3	9035.9	10115.3	10836.5	11753.2	12733.4	14296.7	15002.4	15801.1	15433.5	12823.3
55°	7126.6	7126.6	8004.4	9353.8	10757.4	12457.2	14535.5	15836.8	17046.6	16959.6	13848.5
57.5°	5809.9	5879.7	6439.6	7632.3	9316.5	11799.7	14682.9	16361.0	18049.9	17986.4	14850.4
60°	3585.8	3736.2	4794.0	5971.1	7677.2	10628.6	14589.8	16891.4	19267.5	19318.7	16057.0
62.5°	2019.4	2075.2	2546.7	4296.2	5969.6	9054.4	13877.9	17187.7	20824.6	21041.8	17300.9
65°	1394.3	1422.2	1603.7	2673.8	4137.9	7208.8	12486.8	17003.1	22384.9	22823.8	18355.5
67.5°	1012.8	1026.7	1139.9	1633.1	2455.2	5226.7	10306.1	16072.5	23211.5	23945.1	18557.1
70°	778.6	787.9	870.1	1073.3	1450.2	3226.0	7484.9	14222.3	22612.9	23489.2	17524.2
72.5°	632.8	642.1	705.7	794.1	961.6	1907.6	4536.5	11549.9	19970.1	20916.1	14918.7
75°	533.5	545.9	603.3	660.7	753.8	1225.3	2127.9	8043.3	15017.9	15638.2	10374.3
77.5°	296.2	273.0	490.1	547.5	635.9	775.5	995.7	4733.6	8410.8	8582.9	4603.3
80°	184.6	190.8	389.3	440.4	488.5	390.8	456.0	1822.3	2915.8	2770.0	891.7
82.5°	10.9	24.8	299.3	318.0	335.0	167.5	172.2	618.8	702.5	645.2	158.2
85°	0.0	0.0	136.5	110.1	116.3	48.1	49.6	144.2	94.6	102.4	31.1
87.5°	0.0	0.0	0.0	3.1	0.0	4.6	9.3	12.4	4.6	6.3	10.9
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°	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1	2880.1
2.5°	2918.9	2810.3	2590.1	2374.5	2199.2	2036.4	1920.0	1809.9	1754.1	1751.0	1747.9
5°	3007.2	2779.3	2338.8	1949.5	1636.2	1385.0	1222.1	1105.9	1046.9	1026.7	1023.7
7.5°	3131.4	2788.6	2118.6	1577.3	1208.2	992.6	899.5	862.3	849.9	836.0	832.8
10°	3288.0	2810.3	1921.7	1270.2	952.3	843.7	806.5	791.0	781.7	772.3	769.3
12.5°	3463.3	2830.5	1726.2	1054.6	837.5	781.7	755.3	736.7	724.3	713.4	710.3
15°	3633.9	2842.9	1523.0	904.3	778.6	733.6	705.7	685.5	668.5	656.1	654.5
17.5°	3803.0	2860.0	1332.3	814.3	730.5	685.5	657.6	632.8	618.8	604.9	603.3
20°	3990.6	2856.9	1152.4	750.7	682.4	637.4	607.9	584.7	570.7	555.2	553.7
22.5°	4164.3	2841.3	994.1	696.4	632.8	589.4	556.8	533.5	519.6	507.2	505.6
25°	4364.3	2828.9	862.3	646.8	586.3	542.8	507.2	485.4	470.0	459.1	457.6
27.5°	4556.7	2810.3	766.2	601.8	541.3	499.4	465.2	440.4	426.5	418.7	418.7
30°	4746.0	2805.6	730.5	558.3	500.9	459.1	425.0	401.7	390.8	387.8	386.2
32.5°	4973.9	2818.0	746.0	542.8	463.7	421.9	389.3	372.3	361.4	361.4	361.4
35°	5217.5	2815.0	769.3	556.8	438.9	384.7	359.8	349.0	338.1	338.1	338.1
37.5°	5522.9	2819.7	787.9	580.0	429.6	353.6	339.7	325.7	319.5	319.5	319.5
40°	5978.9	2973.2	778.6	600.2	426.5	331.9	304.0	299.3	294.7	294.7	294.7
42.5°	6537.2	3306.6	791.0	601.8	425.0	316.4	279.2	288.4	277.6	276.0	274.5
45°	7148.4	3671.1	870.1	569.2	423.4	308.6	266.8	277.6	260.6	260.6	260.6
47.5°	7754.7	4032.5	950.7	522.6	418.7	307.1	255.9	249.7	245.1	246.6	246.6
50°	8590.7	4327.1	981.7	459.1	408.0	304.0	235.7	237.3	234.2	237.3	237.3
52.5°	9501.1	4389.2	944.5	387.8	376.9	294.7	221.8	228.0	226.4	229.5	229.5
55°	10068.8	4322.5	780.1	322.6	328.8	257.5	207.9	220.3	220.3	220.3	220.3
57.5°	10655.1	4038.7	553.7	262.1	273.0	210.9	195.5	212.5	210.9	209.4	209.4
60°	11076.9	3579.6	364.5	215.6	217.1	173.7	181.4	200.1	198.5	190.8	190.8
62.5°	11391.7	3072.4	234.2	183.0	165.9	156.6	165.9	181.4	175.3	158.2	155.1
65°	11356.1	2369.9	179.9	156.6	136.5	136.5	144.2	158.2	139.6	111.6	108.5
67.5°	10693.8	1603.7	148.9	131.8	114.8	113.3	119.4	131.8	119.4	94.6	91.5
70°	9510.5	1048.5	119.4	102.4	91.5	83.7	96.1	113.3	100.9	76.0	72.9
72.5°	7719.1	639.0	90.0	74.4	66.7	54.3	76.0	93.1	80.7	55.9	52.7
75°	4994.1	325.7	62.0	48.1	35.7	32.6	55.9	69.8	55.9	34.1	29.4
77.5°	1910.8	136.5	34.1	21.7	18.7	15.5	31.1	41.9	23.3	7.8	6.3
80°	367.6	57.4	17.0	10.9	9.3	6.3	4.6	3.1	0.0	0.0	0.0
82.5°	63.6	18.7	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	0.0	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)