

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: P970551

Luminaire Tested: **NAV-SB6B-835-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970551
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-SB6B-835-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 450mA 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: 27487.4 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

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

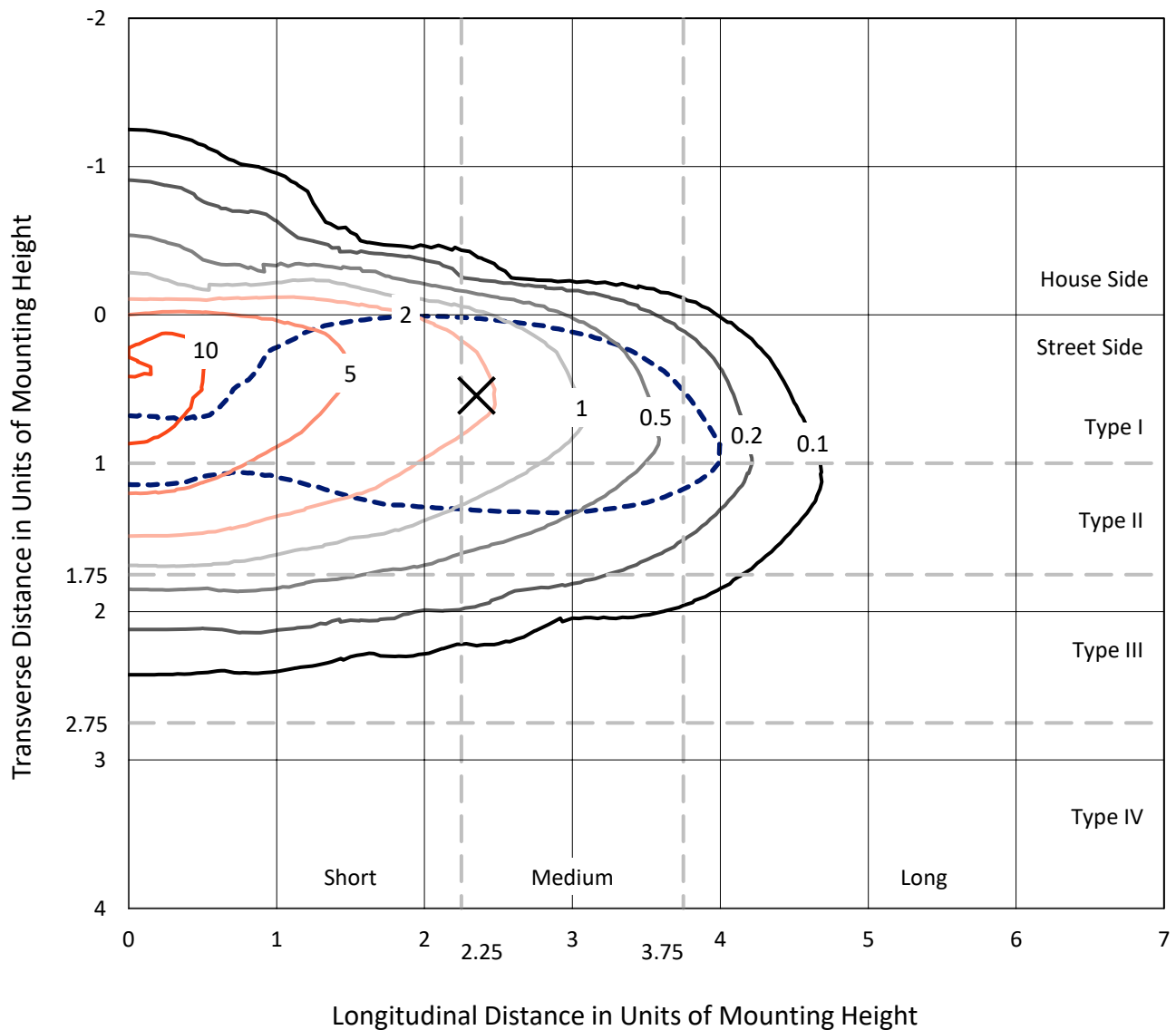


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Iso-Footcandle Lines of Horizontal Illumination

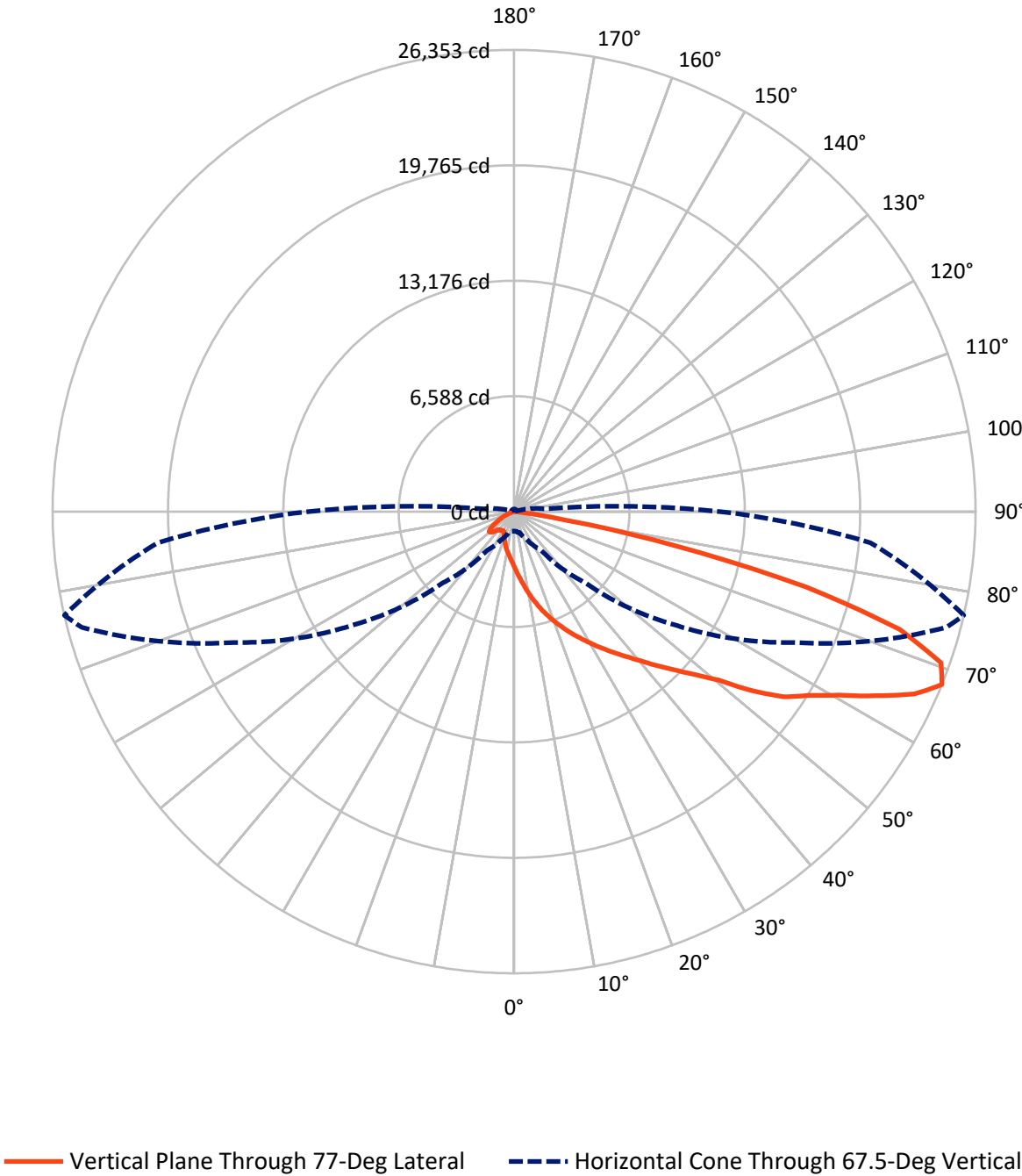
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	2022.3	0.0	2022.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	25465.2	0.0	25465.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	27487.4	0.0	27487.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.5	1.2
10°-20°	1132.9	4.1
20°-30°	2186.2	8.0
30°-40°	3795.4	13.8
40°-50°	5510.8	20.0
50°-60°	6328.4	23.0
60°-70°	5494.3	20.0
70°-80°	2587.9	9.4
80°-90°	128.0	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°	27487.4	100.0
0°-180°	27487.4	100.0

Coefficient of Utilization



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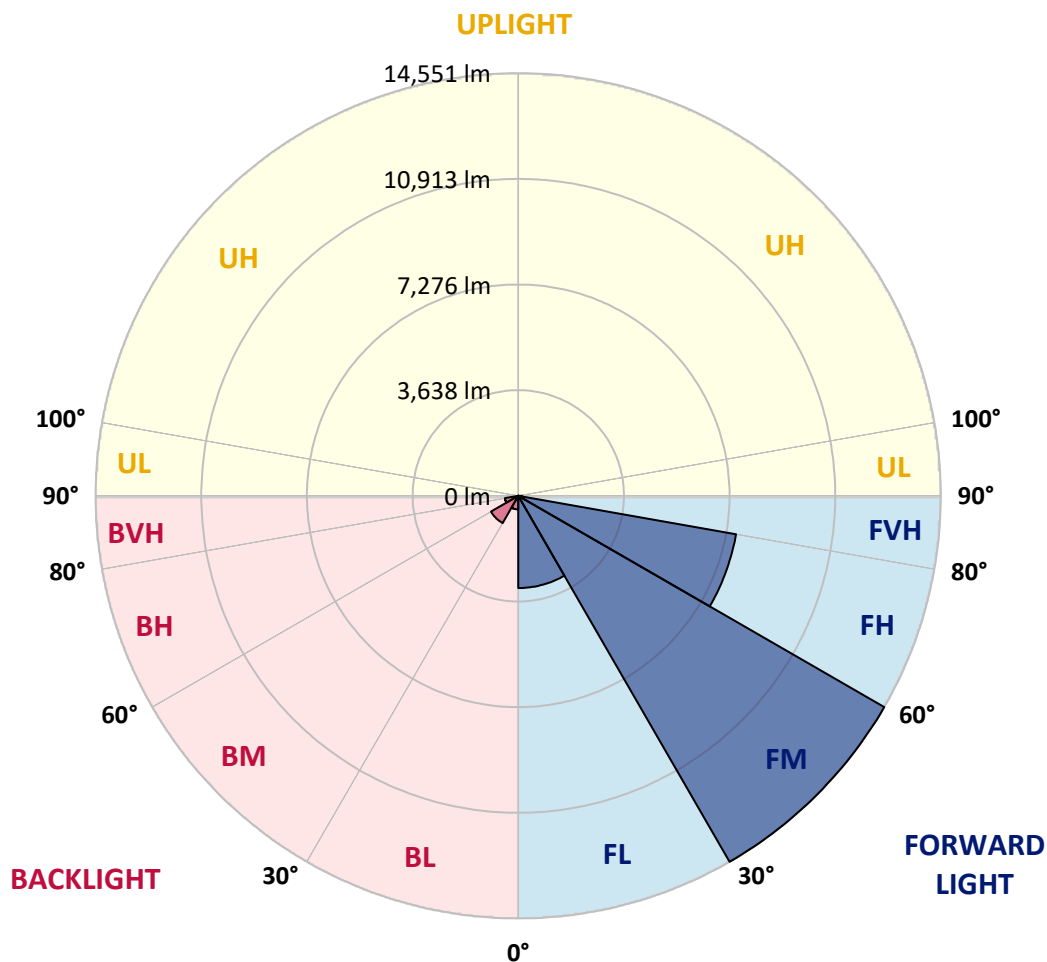
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3174.5	11.5			
FM	(30°-60°)	14551.1	52.9			
FH	(60°-80°)	7613.9	27.7			G4/12000
FVH	(80°-90°)	125.6	0.5			G2/225
BL	(0°-30°)	468.2	1.7	B1/500		
BM	(30°-60°)	1083.6	3.9	B2/2500		
BH	(60°-80°)	468.2	1.7	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7
2.5°	4388.4	4415.7	4376.4	4301.4	4188.8	4115.4	3936.1	3767.1	3579.4	3519.6	3331.9
5°	5349.4	5373.3	5329.0	5247.0	5096.8	4953.4	4717.9	4364.6	3997.5	3879.7	3546.9
7.5°	6061.2	6074.9	6057.7	5982.6	5839.3	5677.2	5414.3	4996.1	4451.6	4321.8	3811.5
10°	6573.2	6617.6	6612.5	6583.5	6487.9	6356.4	6076.5	5600.3	4960.3	4793.0	4110.2
12.5°	6912.9	6962.4	6991.4	7056.3	7051.2	6967.5	6721.7	6218.3	5467.1	5270.9	4446.4
15°	7011.9	7064.8	7175.8	7326.0	7459.1	7501.8	7329.4	6824.1	6025.4	5774.4	4791.3
17.5°	6955.5	7037.5	7170.7	7407.9	7699.8	7892.7	7873.9	7409.6	6532.3	6245.5	5129.2
20°	7080.2	7158.7	7262.8	7462.5	7802.2	8152.1	8292.1	7969.5	7035.8	6735.4	5484.3
22.5°	7769.8	7756.2	7766.3	7798.8	8002.0	8348.4	8636.9	8478.2	7534.3	7227.0	5859.7
25°	8862.2	8800.8	8696.6	8520.8	8469.6	8636.9	8937.3	8928.8	8060.0	7730.6	6243.8
27.5°	10115.1	10104.9	9860.7	9437.4	9198.5	9133.6	9277.0	9367.5	8580.6	8228.9	6629.6
30°	11315.0	11342.3	11012.9	10541.8	10103.1	9848.8	9719.0	9783.9	9109.7	8766.6	7027.3
32.5°	12359.7	12388.7	12030.2	11478.9	10936.0	10628.8	10355.8	10195.3	9686.7	9312.8	7464.3
35°	13242.1	13271.1	12859.8	12250.4	11671.8	11393.5	11084.6	10645.9	10267.0	9918.7	7950.7
37.5°	14030.7	14022.1	13470.9	12856.4	12287.9	12067.7	11905.6	11200.7	10864.4	10528.1	8490.1
40°	14496.7	14532.6	14061.4	13383.7	12832.5	12672.0	12661.7	11888.6	11554.0	11228.0	9080.7
42.5°	14633.2	14696.3	14355.0	13798.6	13298.5	13124.3	13392.3	12632.7	12356.2	12038.7	9748.1
45°	14387.4	14448.9	14293.5	13907.8	13615.9	13503.2	14020.5	13404.2	13213.1	12899.0	10500.8
47.5°	13670.5	13747.3	13784.9	13702.9	13699.5	13813.9	14583.7	14216.7	14230.4	13909.5	11373.1
50°	12282.8	12412.5	12757.4	13047.5	13496.4	14059.7	15131.7	15097.5	15377.5	15100.9	12509.8
52.5°	9760.0	9944.3	11132.3	11926.1	12934.9	14013.6	15734.2	16510.8	17389.8	16985.3	14112.6
55°	7843.2	7843.2	8809.3	10294.3	11839.1	13709.8	15997.0	17429.1	18760.5	18664.9	15240.8
57.5°	6394.1	6470.8	7087.1	8399.7	10253.3	12986.0	16159.1	18006.1	19864.8	19794.9	16343.5
60°	3946.4	4111.9	5276.0	6571.6	8449.2	11697.4	16056.7	18589.8	21204.8	21261.1	17671.5
62.5°	2222.4	2283.8	2802.8	4728.1	6569.8	9964.8	15273.3	18915.8	22918.5	23157.4	19040.4
65°	1534.5	1565.2	1764.9	2942.7	4554.0	7933.6	13742.2	18712.7	24635.6	25118.6	20201.1
67.5°	1114.6	1130.0	1254.6	1797.3	2702.0	5752.2	11342.3	17688.5	25545.4	26352.7	20423.0
70°	856.9	867.2	957.6	1181.2	1595.9	3550.3	8237.5	15652.3	24886.5	25850.9	19286.2
72.5°	696.4	706.6	776.6	873.9	1058.3	2099.5	4992.7	12711.2	21977.9	23019.1	16418.7
75°	587.2	600.9	664.0	727.1	829.5	1348.5	2341.8	8852.0	16527.8	17210.7	11417.4
77.5°	326.1	300.4	539.4	602.5	699.9	853.4	1095.8	5209.5	9256.5	9446.0	5066.1
80°	203.2	209.9	428.4	484.7	537.7	430.1	501.8	2005.6	3209.0	3048.6	981.4
82.5°	12.0	27.3	329.4	349.9	368.7	184.3	189.4	681.0	773.3	710.0	174.1
85°	0.0	0.0	150.2	121.2	128.0	52.9	54.6	158.8	104.1	112.6	34.1
87.5°	0.0	0.0	0.0	3.4	0.0	5.1	10.2	13.6	5.1	6.9	12.0
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°	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7	3169.7
2.5°	3212.4	3092.9	2850.5	2613.2	2420.3	2241.2	2113.1	1992.0	1930.5	1927.1	1923.7
5°	3309.6	3058.8	2574.0	2145.5	1800.8	1524.3	1345.0	1217.0	1152.2	1130.0	1126.6
7.5°	3446.3	3069.0	2331.6	1735.9	1329.6	1092.4	990.0	949.0	935.4	920.0	916.6
10°	3618.7	3092.9	2114.9	1398.0	1048.1	928.5	887.5	870.5	860.3	850.0	846.6
12.5°	3811.5	3115.1	1899.7	1160.7	921.7	860.3	831.3	810.8	797.1	785.2	781.8
15°	3999.2	3128.7	1676.2	995.1	856.9	807.4	776.6	754.4	735.6	722.0	720.3
17.5°	4185.3	3147.5	1466.3	896.2	803.9	754.4	723.8	696.4	681.0	665.7	664.0
20°	4391.8	3144.1	1268.2	826.2	751.0	701.5	669.1	643.5	628.1	611.1	609.4
22.5°	4583.0	3127.1	1094.1	766.4	696.4	648.6	612.7	587.2	571.8	558.1	556.5
25°	4803.3	3113.3	949.0	711.8	645.2	597.4	558.1	534.2	517.2	505.2	503.6
27.5°	5014.8	3092.9	843.2	662.3	595.7	549.6	512.1	484.7	469.3	460.8	460.8
30°	5223.1	3087.8	803.9	614.5	551.3	505.2	467.7	442.1	430.1	426.7	425.1
32.5°	5474.0	3101.4	821.0	597.4	510.3	464.3	428.4	409.7	397.7	397.7	397.7
35°	5741.9	3098.1	846.6	612.7	483.1	423.3	396.0	384.1	372.1	372.1	372.1
37.5°	6078.2	3103.1	867.2	638.4	472.8	389.2	373.8	358.4	351.6	351.6	351.6
40°	6580.1	3272.1	856.9	660.6	469.3	365.3	334.6	329.4	324.3	324.3	324.3
42.5°	7194.6	3639.1	870.5	662.3	467.7	348.2	307.2	317.4	305.6	303.8	302.2
45°	7867.1	4040.2	957.6	626.5	466.0	339.7	293.6	305.6	286.8	286.8	286.8
47.5°	8534.5	4437.9	1046.3	575.2	460.8	337.9	281.7	274.8	269.7	271.4	271.4
50°	9454.5	4762.3	1080.5	505.2	449.0	334.6	259.4	261.2	257.8	261.2	261.2
52.5°	10456.4	4830.5	1039.5	426.7	414.8	324.3	244.1	250.9	249.2	252.7	252.7
55°	11081.2	4757.1	858.5	355.1	361.8	283.3	228.7	242.4	242.4	242.4	242.4
57.5°	11726.4	4444.7	609.4	288.4	300.4	232.2	215.0	233.8	232.2	230.4	230.4
60°	12190.6	3939.5	401.1	237.3	238.9	191.2	199.7	220.2	218.5	209.9	209.9
62.5°	12537.2	3381.4	257.8	201.4	182.7	172.4	182.7	199.7	192.9	174.1	170.7
65°	12497.9	2608.1	198.0	172.4	150.2	150.2	158.8	174.1	153.6	122.9	119.5
67.5°	11769.0	1764.9	163.9	145.0	126.3	124.6	131.4	145.0	131.4	104.1	100.8
70°	10466.7	1153.8	131.4	112.6	100.8	92.1	105.8	124.6	110.9	83.6	80.3
72.5°	8495.2	703.3	99.0	81.9	73.4	59.8	83.6	102.4	88.8	61.4	58.0
75°	5496.2	358.4	68.3	52.9	39.3	35.9	61.4	76.8	61.4	37.5	32.4
77.5°	2102.9	150.2	37.5	23.9	20.5	17.1	34.1	46.1	25.6	8.5	6.9
80°	404.6	63.1	18.8	12.0	10.2	6.9	5.1	3.4	0.0	0.0	0.0
82.5°	70.0	20.5	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	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)