

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: P966676

Luminaire Tested: **NAV-SB4C-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966676
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-SB4C-735-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA 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: 26048.3 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 200.7
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

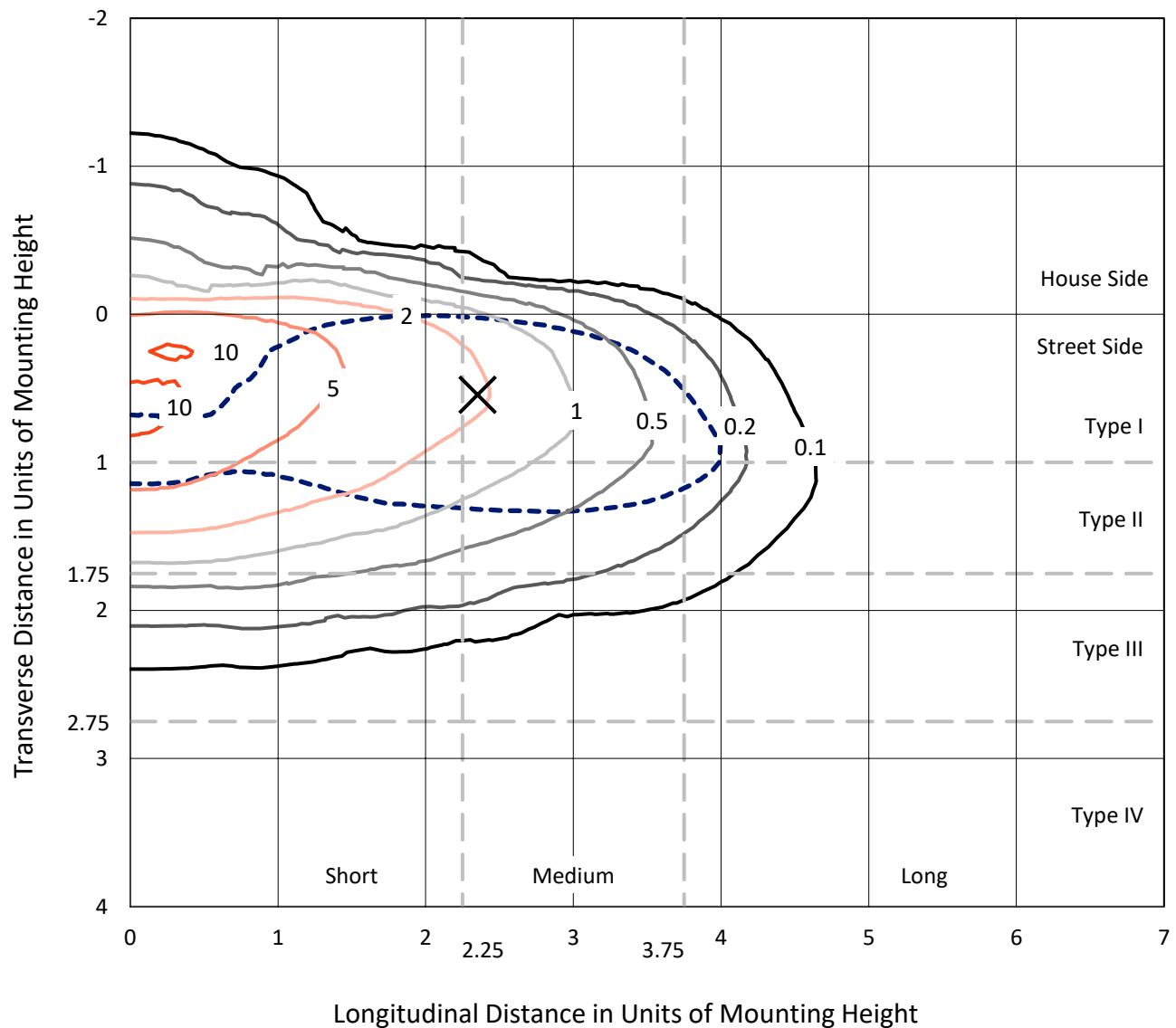


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Iso-Footcandle Lines of Horizontal Illumination

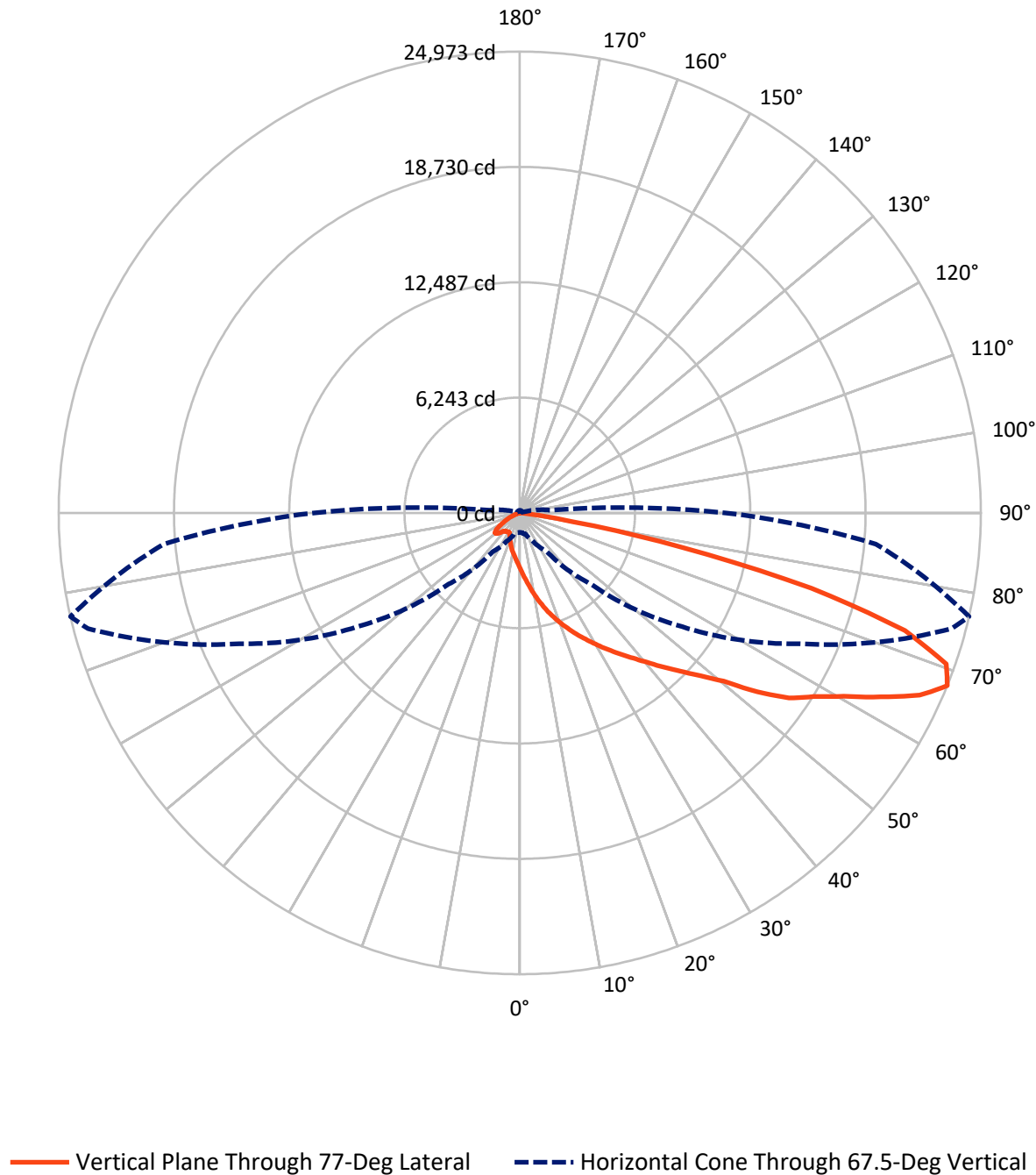
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	1916.4	0.0	1916.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	24131.9	0.0	24131.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	26048.3	0.0	26048.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.6	1.2
10°-20°	1073.6	4.1
20°-30°	2071.8	8.0
30°-40°	3596.7	13.8
40°-50°	5222.3	20.0
50°-60°	5997.1	23.0
60°-70°	5206.6	20.0
70°-80°	2452.4	9.4
80°-90°	121.3	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°	26048.3	100.0
0°-180°	26048.3	100.0

Coefficient of Utilization



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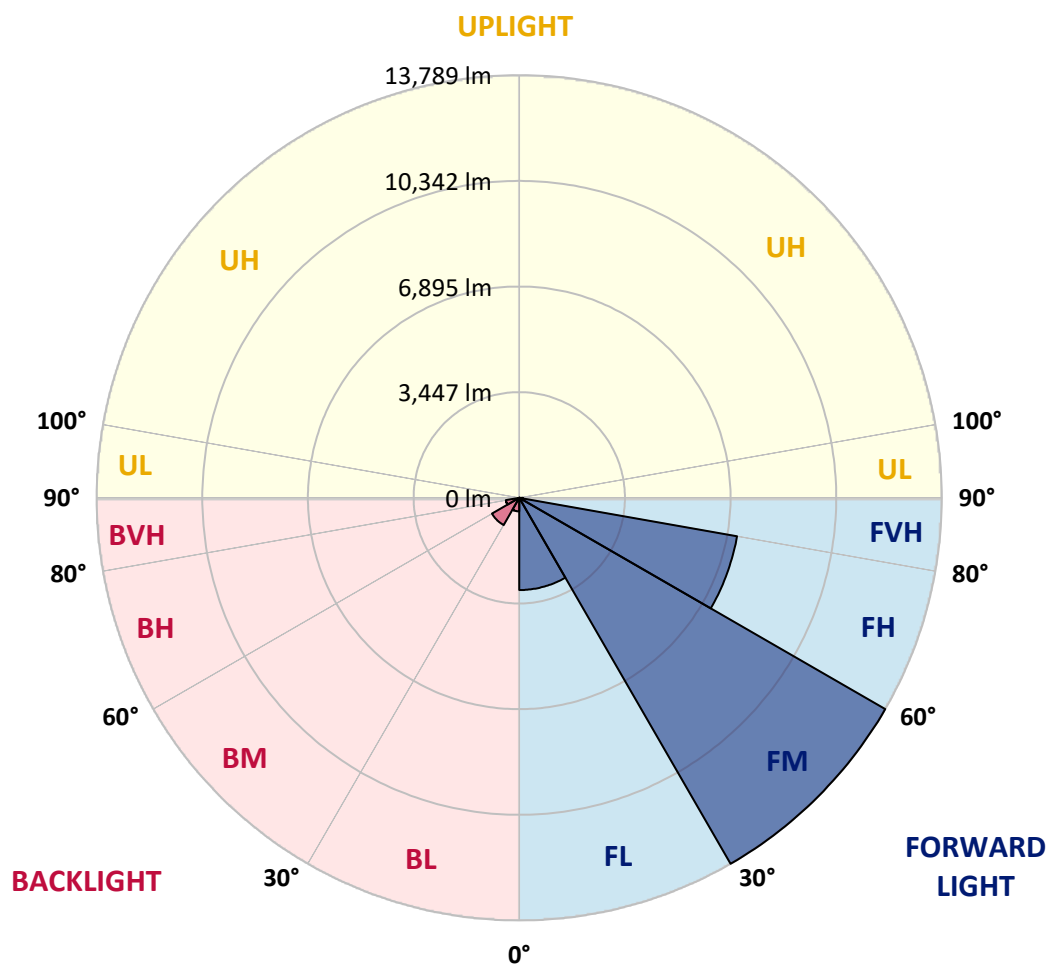
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3008.3	11.5			
FM	(30°-60°)	13789.3	52.9			
FH	(60°-80°)	7215.3	27.7			G3/7500
FVH	(80°-90°)	119.1	0.5			G2/225
BL	(0°-30°)	443.7	1.7	B1/500		
BM	(30°-60°)	1026.8	3.9	B2/2500		
BH	(60°-80°)	443.7	1.7	B1/500		G1/500
BVH	(80°-90°)	2.2	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8
2.5°	4158.6	4184.6	4147.4	4076.2	3969.4	3899.8	3730.0	3569.9	3391.9	3335.4	3157.4
5°	5069.3	5092.0	5050.0	4972.3	4829.9	4694.1	4470.8	4136.0	3788.3	3676.7	3361.2
7.5°	5743.9	5756.8	5740.6	5669.5	5533.6	5379.9	5130.8	4734.5	4218.5	4095.6	3612.0
10°	6229.1	6271.2	6266.3	6238.9	6148.3	6023.7	5758.4	5307.1	4700.5	4542.0	3895.0
12.5°	6551.0	6597.9	6625.4	6686.9	6682.0	6602.7	6369.9	5892.6	5181.0	4994.9	4213.7
15°	6644.8	6695.0	6800.1	6942.4	7068.6	7109.1	6945.7	6466.9	5709.9	5472.1	4540.4
17.5°	6591.5	6669.1	6795.2	7020.1	7296.7	7479.4	7461.7	7021.7	6190.3	5918.6	4860.7
20°	6709.5	6784.0	6882.6	7071.9	7393.7	7725.3	7858.0	7552.3	6667.4	6382.8	5197.2
22.5°	7363.0	7350.1	7359.8	7390.5	7582.9	7911.4	8184.7	8034.3	7139.7	6848.6	5552.9
25°	8398.2	8340.0	8241.3	8074.7	8026.2	8184.7	8469.4	8461.3	7638.0	7325.8	5916.9
27.5°	9585.5	9575.8	9344.5	8943.3	8716.9	8655.4	8791.3	8877.0	8131.3	7798.1	6282.5
30°	10722.6	10748.5	10436.3	9989.9	9574.1	9333.1	9210.2	9271.6	8632.8	8307.6	6659.4
32.5°	11712.6	11740.0	11400.4	10877.9	10363.6	10072.4	9813.6	9661.5	9179.5	8825.2	7073.4
35°	12548.8	12576.3	12186.4	11609.0	11060.7	10797.0	10504.2	10088.6	9729.4	9399.5	7534.5
37.5°	13296.1	13288.0	12765.6	12183.3	11644.6	11435.9	11282.3	10614.3	10295.6	9976.9	8045.6
40°	13737.7	13771.7	13325.2	12683.0	12160.6	12008.6	11998.9	11266.1	10949.0	10640.1	8605.3
42.5°	13867.1	13927.0	13603.4	13076.1	12602.2	12437.1	12691.1	11971.4	11709.3	11408.5	9237.7
45°	13634.1	13692.4	13545.2	13179.7	12903.0	12796.3	13286.4	12702.5	12521.3	12223.6	9951.0
47.5°	12954.8	13027.5	13063.2	12985.5	12982.3	13090.7	13820.2	13472.4	13485.3	13181.3	10777.6
50°	11639.8	11762.7	12089.5	12364.4	12789.8	13323.6	14339.4	14307.1	14572.3	14310.3	11854.8
52.5°	9249.1	9423.7	10549.5	11301.6	12257.7	13279.9	14910.4	15646.4	16479.4	16096.1	13373.8
55°	7432.6	7432.6	8348.1	9755.3	11219.2	12992.0	15159.5	16516.6	17778.3	17687.7	14443.0
57.5°	6059.3	6132.1	6716.0	7959.8	9716.5	12306.2	15313.2	17063.4	18824.8	18758.5	15487.9
60°	3739.7	3896.6	4999.7	6227.5	8006.8	11085.0	15216.1	17616.6	20094.6	20148.0	16746.3
62.5°	2106.1	2164.3	2656.0	4480.6	6225.8	9443.1	14473.6	17925.5	21718.6	21945.0	18043.6
65°	1454.2	1483.3	1672.5	2788.6	4315.6	7518.3	13022.7	17733.0	23345.8	23803.6	19143.5
67.5°	1056.3	1070.8	1188.9	1703.2	2560.6	5451.1	10748.5	16762.4	24207.9	24973.1	19353.7
70°	812.0	821.7	907.4	1119.3	1512.4	3364.5	7806.2	14832.8	23583.6	24497.5	18276.5
72.5°	660.0	669.6	735.9	828.2	1002.9	1989.5	4731.3	12045.8	20827.3	21814.0	15559.0
75°	556.5	569.4	629.2	689.1	786.1	1277.9	2219.2	8388.5	15662.5	16309.6	10819.7
77.5°	308.9	284.6	511.2	571.0	663.2	808.7	1038.4	4936.7	8771.8	8951.4	4800.8
80°	192.5	199.0	406.0	459.4	509.5	407.6	475.6	1900.6	3041.0	2888.9	930.1
82.5°	11.3	25.8	312.2	331.6	349.4	174.7	179.6	645.4	732.8	672.9	165.0
85°	0.0	0.0	142.4	114.8	121.4	50.1	51.8	150.5	98.7	106.8	32.4
87.5°	0.0	0.0	0.0	3.3	0.0	4.8	9.7	12.9	4.8	6.5	11.3
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°	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8	3003.8
2.5°	3044.1	2931.0	2701.3	2476.4	2293.6	2123.8	2002.5	1887.6	1829.4	1826.2	1823.0
5°	3136.4	2898.6	2439.2	2033.2	1706.5	1444.4	1274.6	1153.3	1091.8	1070.8	1067.5
7.5°	3265.8	2908.3	2209.6	1645.0	1260.0	1035.2	938.2	899.3	886.4	871.9	868.6
10°	3429.1	2931.0	2004.1	1324.7	993.1	880.0	841.1	824.9	815.3	805.5	802.3
12.5°	3612.0	2952.0	1800.3	1099.9	873.5	815.3	787.7	768.3	755.4	744.0	740.9
15°	3789.8	2964.9	1588.4	943.0	812.0	765.1	735.9	714.9	697.2	684.2	682.5
17.5°	3966.1	2982.7	1389.5	849.2	761.9	714.9	685.8	660.0	645.4	630.9	629.2
20°	4161.9	2979.5	1201.8	782.9	711.8	664.8	634.1	609.8	595.2	579.1	577.5
22.5°	4343.0	2963.3	1036.8	726.3	660.0	614.7	580.7	556.5	541.9	528.9	527.4
25°	4551.7	2950.4	899.3	674.6	611.4	566.1	528.9	506.2	490.2	478.8	477.1
27.5°	4752.3	2931.0	799.1	627.6	564.5	520.8	485.2	459.4	444.8	436.8	436.8
30°	4949.6	2926.1	761.9	582.3	522.4	478.8	443.2	418.9	407.6	404.4	402.7
32.5°	5187.4	2939.1	778.1	566.1	483.6	439.9	406.0	388.2	376.9	376.9	376.9
35°	5441.4	2935.8	802.3	580.7	457.8	401.2	375.3	364.0	352.6	352.6	352.6
37.5°	5760.0	2940.6	821.7	605.0	448.0	368.8	354.2	339.7	333.2	333.2	333.2
40°	6235.6	3100.8	812.0	626.0	444.8	346.1	317.0	312.2	307.3	307.3	307.3
42.5°	6817.9	3448.6	824.9	627.6	443.2	329.9	291.2	300.8	289.6	287.9	286.3
45°	7455.2	3828.7	907.4	593.7	441.6	321.8	278.2	289.6	271.7	271.7	271.7
47.5°	8087.7	4205.6	991.6	545.1	436.8	320.3	266.9	260.5	255.5	257.2	257.2
50°	8959.5	4512.9	1023.9	478.8	425.4	317.0	245.9	247.4	244.3	247.4	247.4
52.5°	9909.0	4577.6	985.1	404.4	393.1	307.3	231.3	237.8	236.2	239.4	239.4
55°	10501.0	4508.1	813.6	336.4	343.0	268.5	216.8	229.7	229.7	229.7	229.7
57.5°	11112.4	4212.0	577.5	273.4	284.6	220.0	203.8	221.6	220.0	218.3	218.3
60°	11552.4	3733.3	380.1	224.9	226.4	181.1	189.2	208.7	207.0	199.0	199.0
62.5°	11880.8	3204.4	244.3	190.9	173.1	163.4	173.1	189.2	182.8	165.0	161.7
65°	11843.6	2471.6	187.7	163.4	142.4	142.4	150.5	165.0	145.5	116.4	113.3
67.5°	11152.9	1672.5	155.3	137.5	119.7	118.1	124.5	137.5	124.5	98.7	95.4
70°	9918.7	1093.5	124.5	106.8	95.4	87.3	100.2	118.1	105.2	79.2	76.1
72.5°	8050.5	666.5	93.8	77.6	69.6	56.6	79.2	97.1	84.2	58.2	55.0
75°	5208.4	339.7	64.7	50.1	37.2	33.9	58.2	72.8	58.2	35.6	30.7
77.5°	1992.8	142.4	35.6	22.7	19.4	16.2	32.4	43.7	24.3	8.1	6.5
80°	383.3	59.9	17.8	11.3	9.7	6.5	4.8	3.3	0.0	0.0	0.0
82.5°	66.3	19.4	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	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)