

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: P971018

Luminaire Tested: **NAV-SB6C-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-827-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30934.5 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 300.9
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



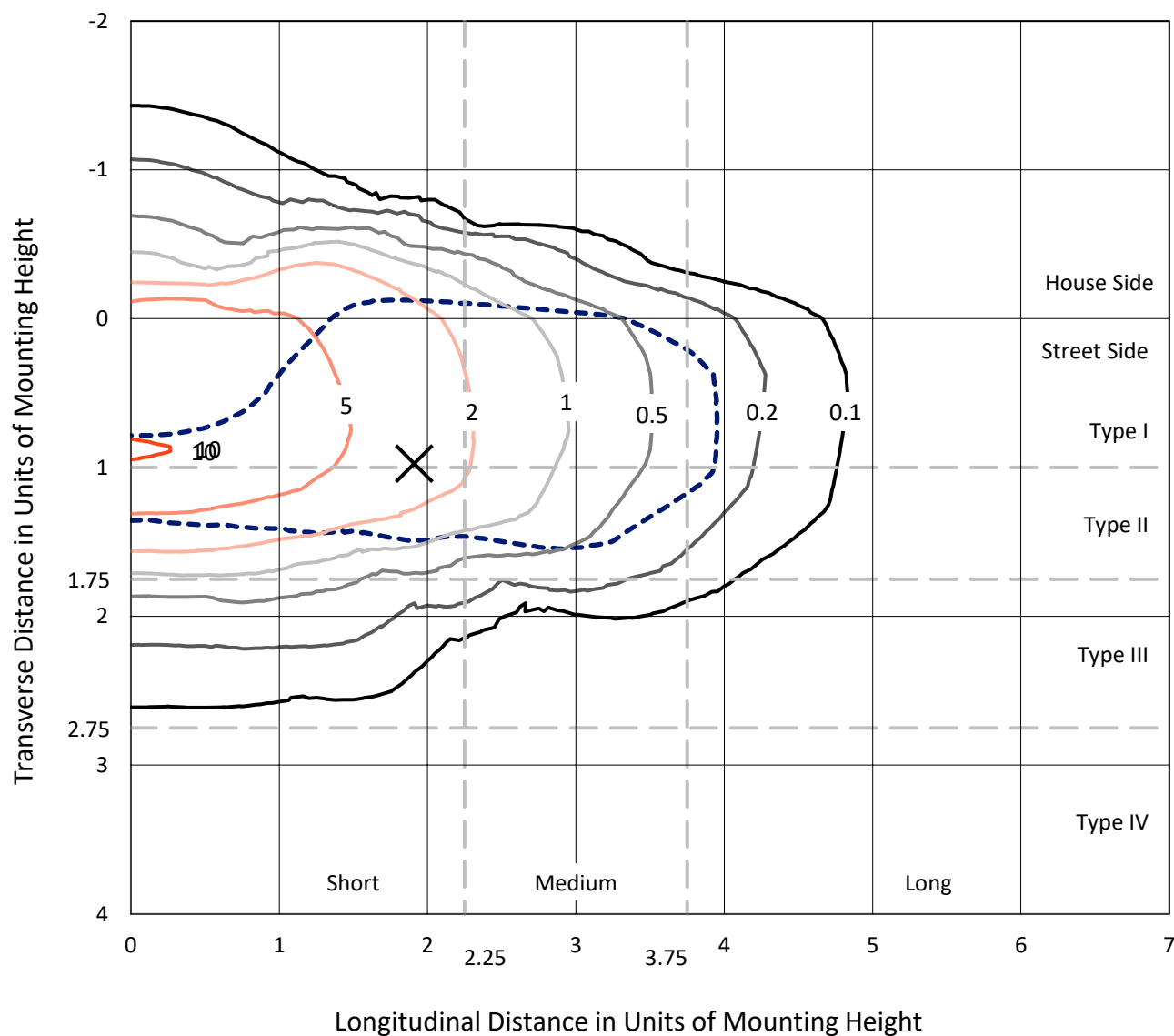
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

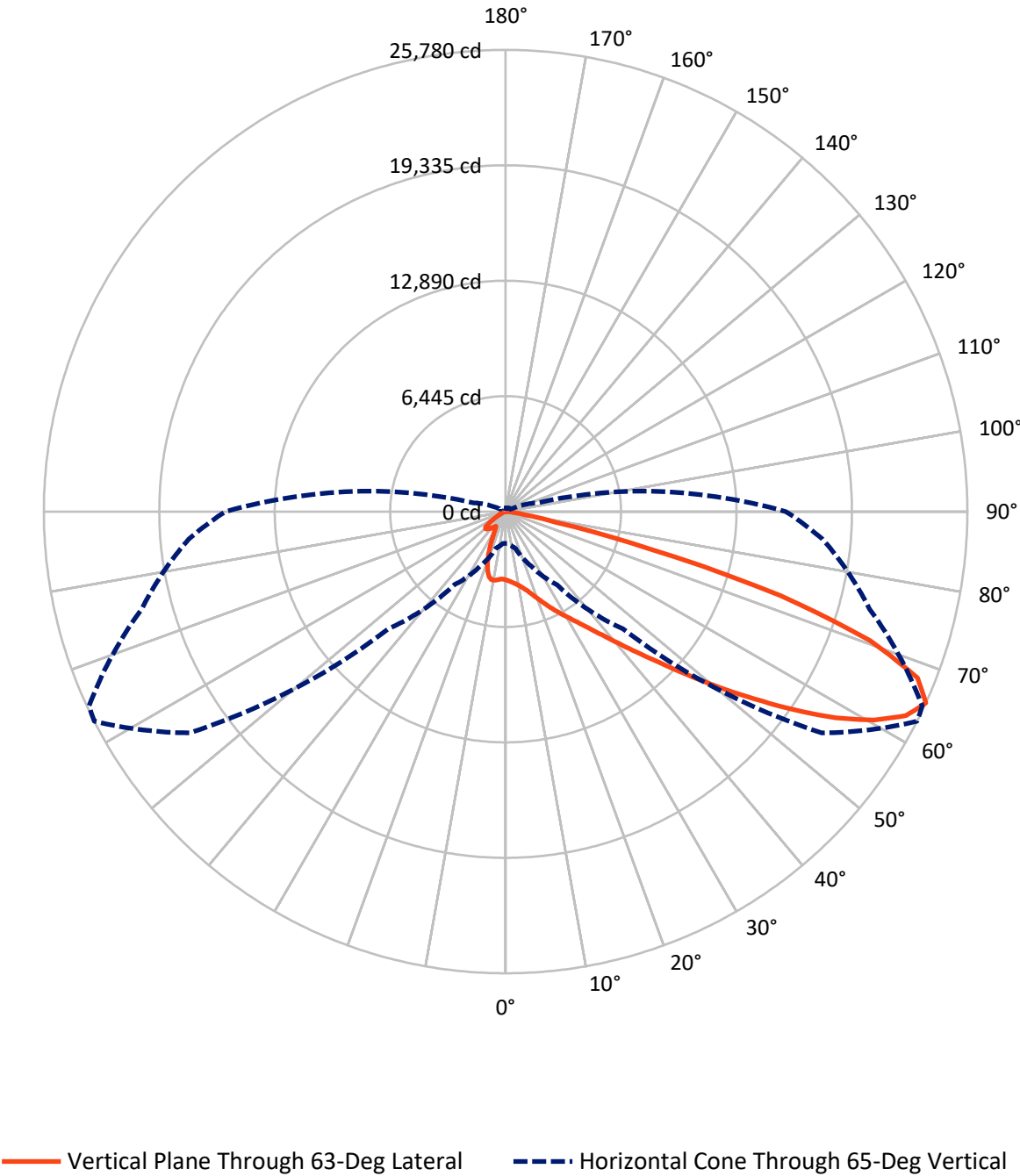


Based on 25 foot mounting height. Maximum calculated value = 10.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4547.1	0.0	4547.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	26387.4	0.0	26387.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	30934.5	0.0	30934.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.7	1.2
10°-20°	998.1	3.2
20°-30°	1737.9	5.6
30°-40°	3132.4	10.1
40°-50°	6212.6	20.1
50°-60°	8462.6	27.4
60°-70°	6754.8	21.8
70°-80°	3056.7	9.9
80°-90°	219.7	0.7
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°	30934.5	100.0
0°-180°	30934.5	100.0

Coefficient of Utilization



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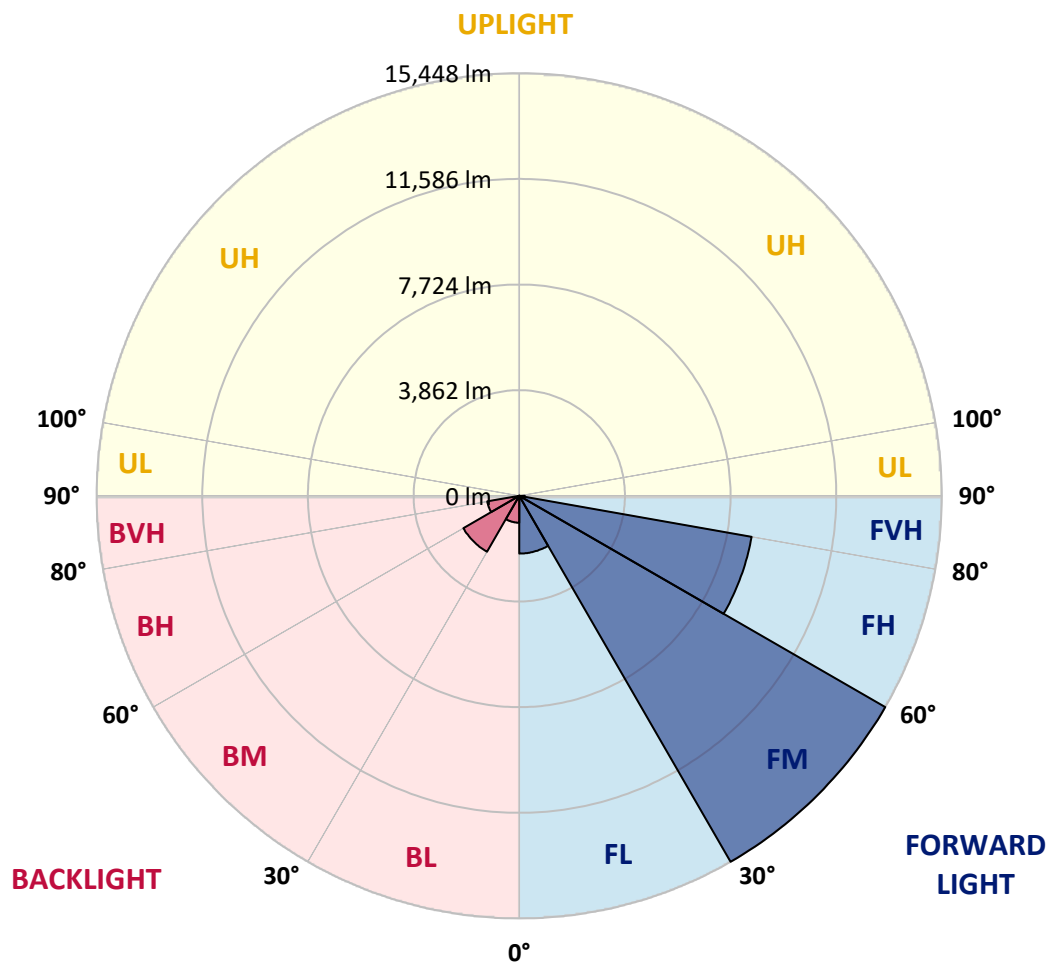
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2111.7	6.8			
FM	(30°-60°)	15447.9	49.9			
FH	(60°-80°)	8624.4	27.9			G4/12000
FVH	(80°-90°)	203.4	0.7			G2/225
BL	(0°-30°)	984.1	3.2	B2/1000		
BM	(30°-60°)	2359.7	7.6	B2/2500		
BH	(60°-80°)	1187.1	3.8	B3/2500		G3/2500
BVH	(80°-90°)	16.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3817.9	3817.9	3817.9	3817.9	3817.9	3817.9	3817.9	3817.9	3817.9	3817.9	3817.9
2.5°	3907.3	3896.6	3911.5	3905.1	3900.9	3892.4	3888.1	3883.8	3875.3	3869.0	3843.4
5°	3918.0	3911.5	3926.5	3939.2	3952.0	3964.7	3971.2	3979.7	3971.2	3954.1	3928.5
7.5°	3828.6	3824.3	3856.3	3894.5	3952.0	4000.9	4054.1	4083.9	4086.1	4079.7	4052.0
10°	3822.1	3811.6	3843.4	3890.3	3964.7	4052.0	4145.6	4209.5	4218.0	4245.7	4215.8
12.5°	3922.2	3911.5	3956.2	4007.3	4083.9	4175.4	4290.3	4379.7	4392.5	4430.8	4409.5
15°	4090.3	4075.4	4126.4	4192.5	4290.3	4394.6	4515.9	4596.8	4607.5	4654.2	4616.0
17.5°	4286.1	4271.2	4330.8	4401.0	4507.4	4650.0	4790.4	4879.8	4892.6	4922.5	4852.1
20°	4537.3	4518.1	4564.8	4628.7	4741.5	4911.8	5079.9	5207.6	5205.5	5205.5	5090.6
22.5°	4828.8	4798.9	4839.4	4890.5	4996.9	5203.3	5426.8	5577.8	5577.8	5518.3	5328.9
25°	5141.6	5111.8	5156.5	5203.3	5297.0	5531.1	5792.8	5980.1	5988.7	5886.5	5584.3
27.5°	5533.2	5494.9	5529.0	5584.3	5639.5	5878.0	6188.6	6405.7	6409.9	6252.5	5826.9
30°	6286.5	6178.0	6071.6	6012.0	6037.6	6273.8	6605.8	6846.3	6867.5	6650.5	6090.8
32.5°	7665.6	7644.3	7269.8	6780.3	6524.9	6699.4	7071.9	7361.2	7374.1	7095.3	6433.4
35°	9808.6	9783.1	9180.8	8248.7	7416.6	7269.8	7637.9	7980.5	7972.0	7657.1	6878.2
37.5°	12366.7	12343.3	11549.5	10302.4	8955.2	8131.6	8367.9	8727.6	8780.8	8367.9	7452.8
40°	14552.3	14465.0	13962.8	12760.4	10998.2	9561.8	9406.4	9644.7	9700.1	9210.6	8182.8
42.5°	16208.0	16133.5	15878.2	15126.8	13471.2	11677.2	10630.1	10721.6	10783.3	10196.0	9021.2
45°	17065.6	17048.6	17150.8	17080.5	15990.9	14273.5	12379.4	11998.5	12021.9	11287.7	9972.5
47.5°	17186.9	17178.4	17644.5	18304.2	18157.4	17201.9	14624.7	13590.4	13507.3	12519.9	11006.8
50°	16471.9	16454.8	17348.6	18585.1	19604.6	19662.0	17174.2	15384.4	15201.4	13794.7	12085.8
52.5°	14188.4	14184.2	15652.6	17710.5	20113.2	21815.7	19693.9	17355.1	17048.6	15144.0	13226.5
55°	10917.4	10996.2	12679.6	15112.0	19185.2	22852.1	21956.1	19542.9	19072.5	16501.7	14277.7
57.5°	7733.7	7848.6	9512.8	11679.3	16308.1	22239.2	23486.2	21734.8	21228.3	17855.2	15343.9
60°	4154.1	4256.3	5922.7	8508.3	12132.6	19953.6	24292.8	23637.3	23158.5	19140.5	16305.9
62.5°	2475.1	2509.1	3198.6	5492.8	8206.2	15243.9	23950.3	25086.7	24693.0	20219.6	17142.2
65°	1777.0	1783.4	2130.3	3354.0	4982.0	9261.7	21547.6	25780.4	25659.1	21032.5	17761.5
67.5°	1496.1	1491.8	1636.5	2228.1	3394.4	4639.4	16514.5	24799.4	25314.3	21547.6	18112.7
70°	1283.3	1289.7	1459.9	1632.3	2551.6	2626.2	8210.5	21592.2	22690.3	21683.8	18091.5
72.5°	955.5	976.8	1134.3	1487.6	1926.0	1806.8	2834.7	16010.1	17995.6	20430.2	17152.9
75°	674.7	685.3	798.1	1251.3	1436.5	1315.2	1447.1	8276.4	10821.6	15663.2	14039.4
77.5°	519.3	538.4	604.4	874.6	1415.2	923.6	885.3	2864.5	4401.0	9461.8	9625.7
80°	281.0	315.0	436.2	632.0	993.8	653.3	438.4	1140.7	1491.8	4424.4	3711.5
82.5°	144.7	161.7	304.3	455.4	566.1	570.3	217.1	474.6	615.0	1366.2	508.6
85°	57.5	70.2	204.3	251.1	291.5	281.0	97.9	191.6	221.3	378.8	155.4
87.5°	12.8	21.3	74.5	57.5	55.4	59.6	23.4	44.7	42.5	44.7	27.7
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°	3817.9	3817.9	3817.9	3817.9	3817.9	3817.9	3817.9	3817.9	3817.9	3817.9	3817.9
2.5°	3841.3	3832.8	3809.4	3783.9	3754.1	3737.0	3726.4	3724.2	3709.4	3698.7	3709.4
5°	3905.1	3896.6	3852.0	3798.8	3741.2	3696.6	3654.0	3615.7	3560.4	3549.8	3545.5
7.5°	4032.9	4009.4	3937.1	3864.8	3756.2	3626.3	3468.9	3288.0	3126.2	3077.3	3053.9
10°	4190.3	4158.4	4066.9	3939.2	3698.7	3345.5	2964.5	2611.3	2330.3	2251.6	2221.8
12.5°	4369.1	4341.4	4220.1	3983.9	3458.2	2817.6	2234.6	1796.2	1523.8	1455.7	1436.5
15°	4582.0	4541.5	4373.4	3915.8	3028.4	2140.9	1534.4	1274.8	1176.9	1164.1	1151.3
17.5°	4807.5	4741.5	4509.6	3671.0	2449.5	1521.6	1185.4	1110.9	1068.4	1055.5	1049.2
20°	5013.9	4928.8	4590.5	3300.8	1830.2	1185.4	1061.9	1013.0	974.7	959.8	951.3
22.5°	5220.3	5099.1	4590.5	2796.4	1372.7	1051.3	974.7	930.0	885.3	866.1	855.6
25°	5435.3	5273.5	4509.6	2234.6	1104.5	964.0	891.6	842.8	804.4	781.0	772.5
27.5°	5643.9	5420.4	4324.4	1702.5	983.2	887.4	815.1	768.2	732.1	715.0	715.0
30°	5841.8	5565.1	4064.7	1291.8	904.5	812.9	744.9	704.4	668.2	651.2	653.3
32.5°	6109.9	5748.1	3788.1	1059.8	836.4	742.7	681.0	642.7	610.8	598.0	598.0
35°	6482.3	6018.4	3549.8	1040.7	778.9	685.3	623.5	587.3	555.4	544.8	544.8
37.5°	7010.1	6454.6	3424.2	1168.4	732.1	634.2	576.8	538.4	508.6	500.1	497.9
40°	7661.4	7046.3	3492.3	1296.0	700.2	589.5	534.1	495.9	470.3	459.7	457.6
42.5°	8433.9	7776.3	3869.0	1393.9	678.9	551.1	493.7	451.2	434.2	429.9	429.9
45°	9321.2	8578.5	4445.7	1498.2	644.8	515.1	453.3	421.4	408.6	406.5	404.4
47.5°	10330.1	9459.6	5113.9	1628.0	610.8	480.9	421.4	400.1	389.5	385.2	385.2
50°	11330.2	10347.1	5801.3	1700.4	583.1	449.1	395.9	378.8	370.3	368.2	368.2
52.5°	12377.3	11260.0	6356.7	1632.3	559.8	423.5	374.5	361.8	353.3	351.2	351.2
55°	13375.4	11998.5	6452.6	1385.4	512.9	398.0	351.2	344.8	334.2	334.2	332.0
57.5°	14235.2	12368.8	5775.8	1017.2	466.1	359.7	327.7	321.3	312.8	310.7	308.6
60°	15024.8	12262.4	4458.4	685.3	415.0	321.3	298.0	293.7	285.2	274.5	272.4
62.5°	15469.5	11794.2	3049.7	446.9	363.9	281.0	263.9	261.8	242.6	221.3	217.1
65°	15637.6	10832.3	1902.6	325.6	304.3	240.5	227.8	223.4	195.8	172.4	170.3
67.5°	15490.8	9249.0	959.8	257.5	240.5	200.1	187.3	187.3	168.1	146.9	144.7
70°	14903.4	6933.5	404.4	206.4	185.1	153.2	153.2	161.7	142.6	119.2	117.1
72.5°	13628.7	4664.9	214.9	157.4	138.4	108.5	125.6	131.9	112.7	89.4	89.4
75°	10834.5	2845.3	148.9	117.1	87.2	76.6	95.7	100.0	76.6	59.6	57.5
77.5°	7410.2	1634.5	100.0	74.5	55.4	44.7	66.0	61.7	40.4	27.7	29.8
80°	3254.0	681.0	57.5	34.0	21.3	17.0	23.4	17.0	12.8	8.5	8.5
82.5°	380.9	159.6	21.3	12.8	8.5	4.3	2.2	0.0	0.0	0.0	0.0
85°	78.7	19.2	10.7	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.9	4.3	2.2	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)