

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: P971049

Luminaire Tested: **NAV-SB6C-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971049
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-830-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 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: 31965.6 lumens
Efficiency: N/A
Efficacy: 106.2 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

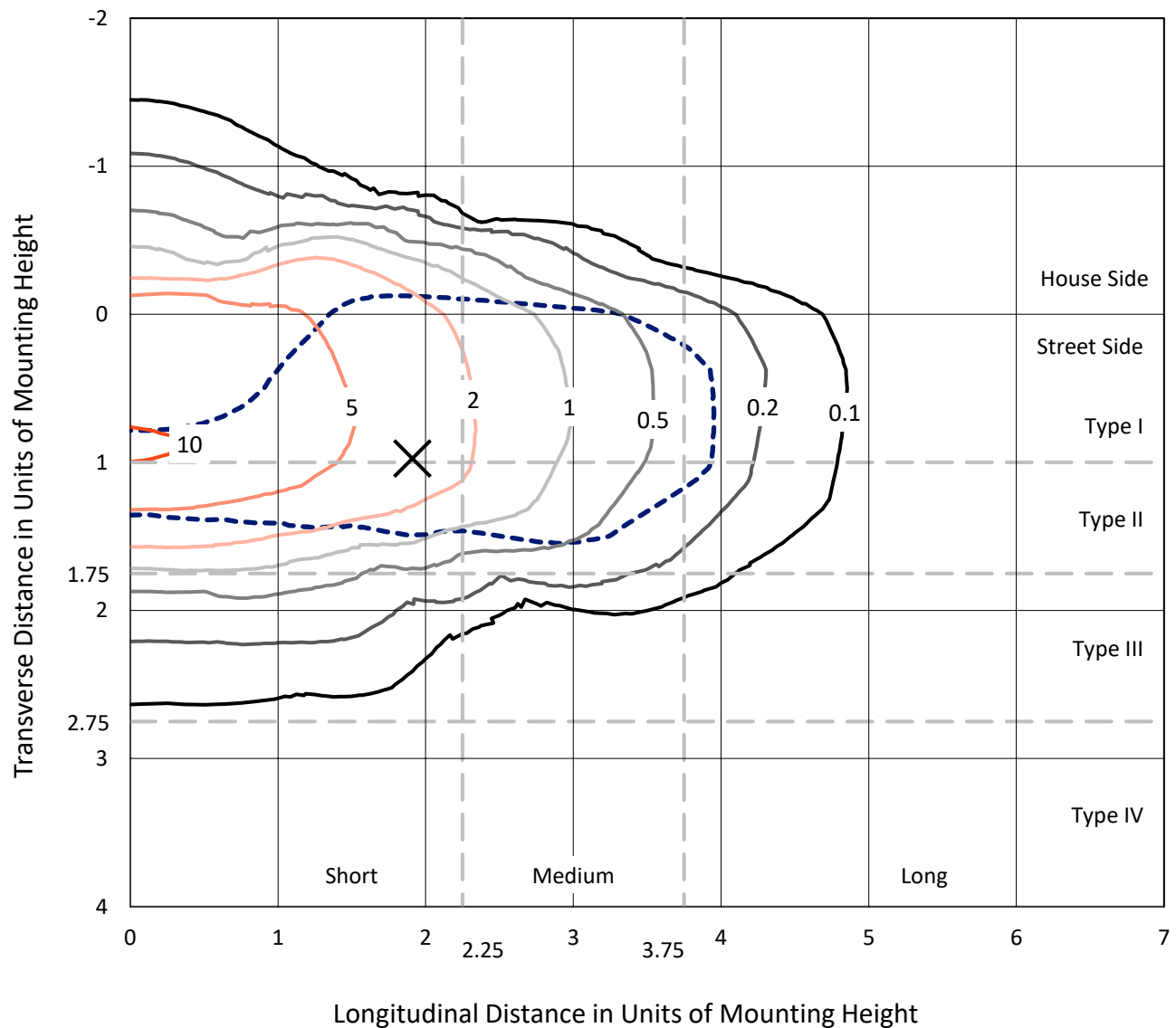


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Iso-Footcandle Lines of Horizontal Illumination

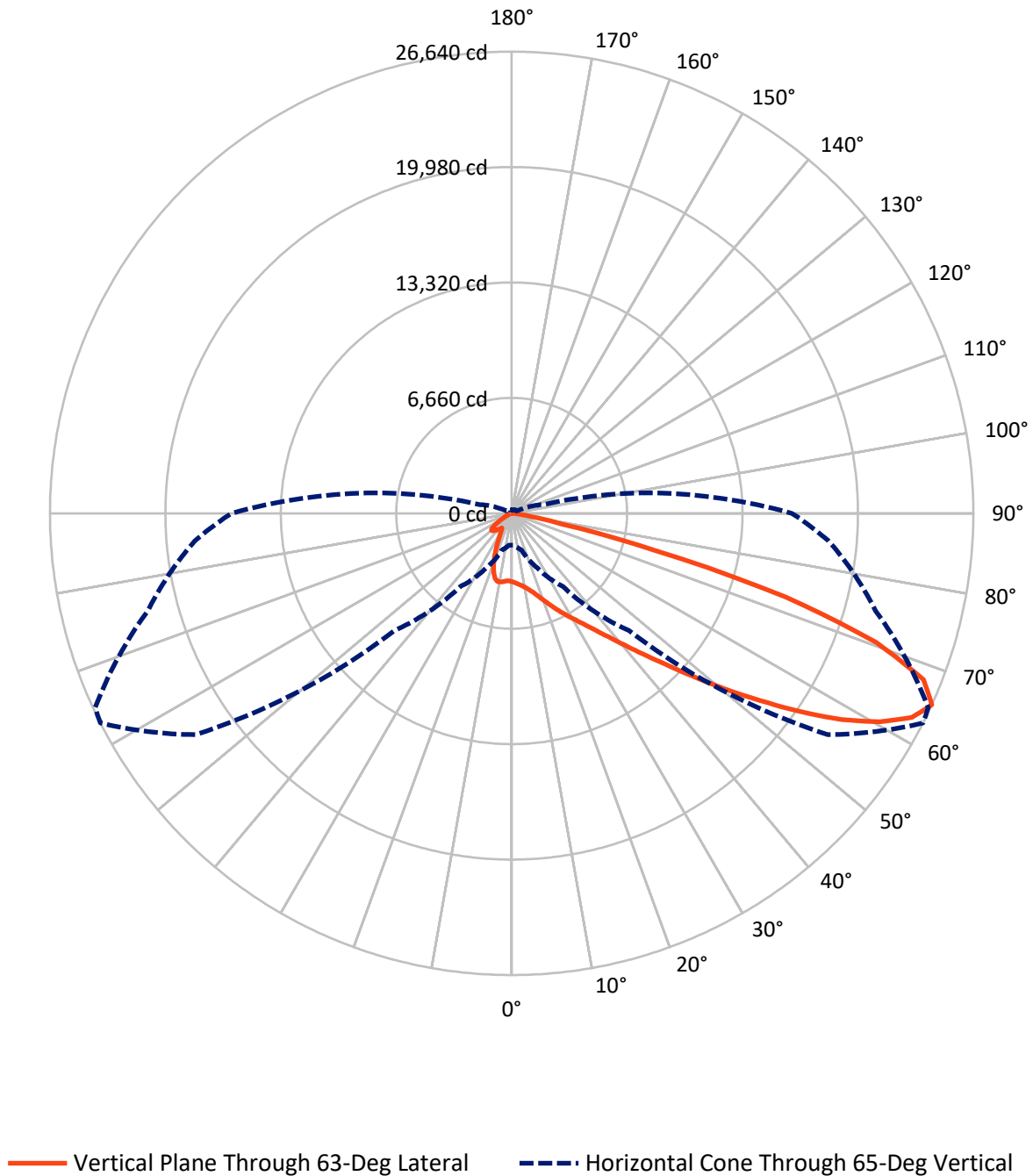
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	4698.7	0.0	4698.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	27266.9	0.0	27266.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	31965.6	0.0	31965.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.7	1.2
10°-20°	1031.4	3.2
20°-30°	1795.9	5.6
30°-40°	3236.8	10.1
40°-50°	6419.7	20.1
50°-60°	8744.7	27.4
60°-70°	6979.9	21.8
70°-80°	3158.6	9.9
80°-90°	227.0	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°	31965.6	100.0
0°-180°	31965.6	100.0

Coefficient of Utilization



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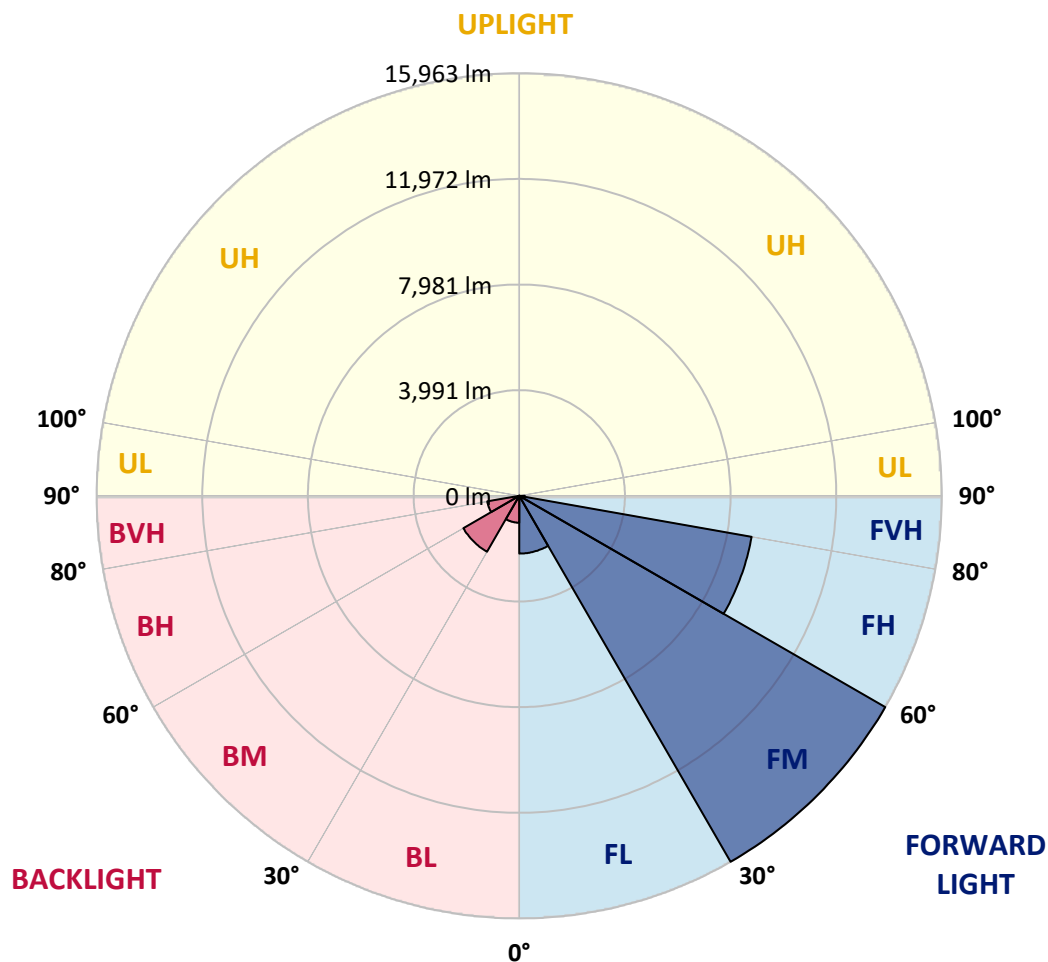
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2182.0	6.8			
FM	(30°-60°)	15962.8	49.9			
FH	(60°-80°)	8911.9	27.9			G4/12000
FVH	(80°-90°)	210.2	0.7			G2/225
BL	(0°-30°)	1016.9	3.2	B3/2500		
BM	(30°-60°)	2438.3	7.6	B2/2500		
BH	(60°-80°)	1226.6	3.8	B3/2500		G3/2500
BVH	(80°-90°)	16.8	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°	3945.1	3945.1	3945.1	3945.1	3945.1	3945.1	3945.1	3945.1	3945.1	3945.1	3945.1
2.5°	4037.6	4026.5	4041.9	4035.3	4030.9	4022.1	4017.7	4013.4	4004.6	3997.9	3971.6
5°	4048.5	4041.9	4057.4	4070.5	4083.7	4096.9	4103.5	4112.3	4103.5	4086.0	4059.5
7.5°	3956.2	3951.8	3984.8	4024.4	4083.7	4134.3	4189.3	4220.0	4222.3	4215.6	4187.0
10°	3949.5	3938.6	3971.6	4019.9	4096.9	4187.0	4283.8	4349.8	4358.6	4387.2	4356.4
12.5°	4053.0	4041.9	4088.1	4140.9	4220.0	4314.6	4433.3	4525.7	4538.9	4578.5	4556.5
15°	4226.7	4211.2	4264.0	4332.2	4433.3	4541.2	4666.5	4750.1	4761.0	4809.4	4769.8
17.5°	4428.9	4413.5	4475.2	4547.7	4657.7	4805.0	4950.1	5042.5	5055.7	5086.5	5013.9
20°	4688.5	4668.7	4717.0	4783.1	4899.6	5075.5	5249.2	5381.1	5379.0	5379.0	5260.2
22.5°	4989.7	4959.0	5000.8	5053.5	5163.4	5376.7	5607.7	5763.8	5763.8	5702.3	5506.5
25°	5313.0	5282.2	5328.4	5376.7	5473.5	5715.4	5985.9	6179.4	6188.2	6082.7	5770.4
27.5°	5717.7	5678.1	5713.2	5770.4	5827.5	6073.8	6395.0	6619.2	6623.7	6460.9	6021.1
30°	6496.1	6383.9	6274.0	6212.4	6238.8	6482.9	6826.0	7074.4	7096.5	6872.1	6293.8
32.5°	7921.1	7899.2	7512.1	7006.3	6742.4	6922.7	7307.5	7606.6	7619.8	7331.7	6647.8
35°	10135.6	10109.2	9486.9	8523.7	7663.8	7512.1	7892.5	8246.5	8237.8	7912.3	7107.5
37.5°	12778.9	12754.7	11934.5	10645.8	9253.8	8402.7	8646.8	9018.5	9073.4	8646.8	7701.2
40°	15037.4	14947.2	14428.2	13185.7	11364.9	9880.5	9720.0	9966.3	10023.5	9517.6	8455.5
42.5°	16748.3	16671.3	16407.4	15631.1	13920.2	12066.4	10984.4	11079.0	11142.8	10535.9	9322.0
45°	17634.5	17616.9	17722.5	17649.9	16523.9	14749.2	12792.1	12398.5	12422.7	11664.0	10304.9
47.5°	17759.9	17751.1	18232.6	18914.3	18762.6	17775.2	15112.1	14043.4	13957.6	12937.2	11373.7
50°	17020.9	17003.3	17926.9	19204.6	20258.0	20317.3	17746.6	15897.2	15708.1	14254.5	12488.6
52.5°	14661.3	14656.9	16174.3	18300.9	20783.6	22542.8	20350.4	17933.6	17616.9	15648.7	13667.4
55°	11281.4	11362.7	13102.2	15615.8	19824.8	23613.8	22688.0	20194.2	19708.2	17051.7	14753.6
57.5°	7991.5	8110.2	9830.0	12068.6	16851.6	22980.5	24269.1	22459.3	21935.9	18450.3	15855.4
60°	4292.6	4398.2	6120.1	8791.9	12537.0	20618.7	25102.6	24425.2	23930.5	19778.6	16849.5
62.5°	2557.6	2592.7	3305.2	5675.8	8479.7	15752.1	24748.5	25922.9	25516.0	20893.5	17713.6
65°	1836.3	1842.8	2201.3	3465.7	5148.1	9570.4	22265.8	26639.7	26514.4	21733.6	18353.5
67.5°	1546.0	1541.6	1691.1	2302.5	3507.6	4794.0	17064.9	25626.0	26158.2	22265.8	18716.4
70°	1326.0	1332.6	1508.6	1686.7	2636.7	2713.7	8484.1	22312.0	23446.7	22406.5	18694.5
72.5°	987.4	1009.4	1172.1	1537.2	1990.1	1867.0	2929.1	16543.7	18595.4	21111.2	17724.6
75°	697.1	708.1	824.6	1293.0	1484.4	1359.0	1495.4	8552.3	11182.3	16185.3	14507.3
77.5°	536.6	556.4	624.5	903.8	1462.4	954.4	914.8	2960.0	4547.7	9777.2	9946.5
80°	290.3	325.4	450.8	653.1	1026.9	675.2	453.0	1178.8	1541.6	4571.9	3835.2
82.5°	149.5	167.2	314.5	470.6	585.0	589.4	224.3	490.4	635.5	1411.8	525.6
85°	59.3	72.6	211.2	259.5	301.2	290.3	101.2	197.9	228.7	391.4	160.5
87.5°	13.2	22.0	77.0	59.3	57.2	61.6	24.2	46.2	44.0	46.2	28.6
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°	3945.1	3945.1	3945.1	3945.1	3945.1	3945.1	3945.1	3945.1	3945.1	3945.1	3945.1
2.5°	3969.3	3960.6	3936.4	3910.0	3879.2	3861.6	3850.6	3848.4	3833.0	3822.0	3833.0
5°	4035.3	4026.5	3980.4	3925.3	3866.0	3819.9	3775.8	3736.2	3679.0	3668.1	3663.7
7.5°	4167.2	4143.0	4068.3	3993.5	3881.4	3747.3	3584.5	3397.6	3230.5	3179.9	3155.7
10°	4330.0	4297.0	4202.5	4070.5	3822.0	3457.0	3063.3	2698.3	2408.0	2326.6	2295.9
12.5°	4514.7	4486.1	4360.8	4116.7	3573.6	2911.6	2309.0	1856.1	1574.5	1504.2	1484.4
15°	4734.7	4692.9	4519.1	4046.3	3129.3	2212.3	1585.6	1317.2	1216.1	1202.9	1189.7
17.5°	4967.8	4899.6	4659.9	3793.4	2531.1	1572.4	1224.9	1147.9	1103.9	1090.7	1084.1
20°	5181.1	5093.1	4743.4	3410.8	1891.2	1224.9	1097.4	1046.7	1007.2	991.8	983.0
22.5°	5394.4	5269.0	4743.4	2889.6	1418.4	1086.4	1007.2	961.0	914.8	895.0	884.1
25°	5616.5	5449.3	4659.9	2309.0	1141.3	996.2	921.4	870.8	831.3	807.1	798.3
27.5°	5831.9	5601.1	4468.6	1759.3	1016.0	917.1	842.2	793.9	756.4	738.9	738.9
30°	6036.5	5750.7	4200.2	1334.9	934.6	840.1	769.7	727.9	690.5	672.9	675.2
32.5°	6313.6	5939.8	3914.4	1095.1	864.3	767.5	703.7	664.1	631.1	618.0	618.0
35°	6698.4	6219.0	3668.1	1075.3	804.8	708.1	644.3	606.9	574.0	562.9	562.9
37.5°	7243.8	6669.9	3538.3	1207.3	756.4	655.3	595.9	556.4	525.6	516.8	514.6
40°	7916.7	7281.2	3608.7	1339.3	723.5	609.2	552.0	512.4	486.0	475.0	472.8
42.5°	8715.0	8035.5	3997.9	1440.4	701.5	569.6	510.1	466.2	448.6	444.2	444.2
45°	9632.0	8864.5	4593.9	1548.2	666.4	532.2	468.4	435.4	422.2	420.0	417.8
47.5°	10674.3	9774.9	5284.4	1682.3	631.1	497.0	435.4	413.4	402.4	398.0	398.0
50°	11708.0	10692.0	5994.7	1757.1	602.6	464.0	409.1	391.4	382.6	380.5	380.5
52.5°	12789.9	11635.4	6568.7	1686.7	578.4	437.6	387.0	373.8	365.0	362.8	362.8
55°	13821.3	12398.5	6667.6	1431.6	530.0	411.2	362.8	356.3	345.2	345.2	343.1
57.5°	14709.7	12781.1	5968.4	1051.1	481.6	371.7	338.7	332.1	323.3	321.0	318.9
60°	15525.6	12671.2	4607.1	708.1	428.9	332.1	307.9	303.5	294.7	283.7	281.5
62.5°	15985.2	12187.4	3151.3	461.8	376.1	290.3	272.6	270.5	250.7	228.7	224.3
65°	16158.9	11193.4	1966.0	336.5	314.5	248.5	235.3	230.9	202.3	178.1	175.9
67.5°	16007.1	9557.2	991.8	266.1	248.5	206.7	193.5	193.5	173.7	151.7	149.5
70°	15400.2	7164.6	417.8	213.3	191.4	158.4	158.4	167.2	147.3	123.1	121.0
72.5°	14083.0	4820.4	222.1	162.8	143.0	112.1	129.8	136.3	116.5	92.4	92.4
75°	11195.6	2940.2	154.0	121.0	90.2	79.1	98.9	103.3	79.1	61.6	59.3
77.5°	7657.3	1688.9	103.3	77.0	57.2	46.2	68.2	63.8	41.8	28.6	30.7
80°	3362.4	703.7	59.3	35.2	22.0	17.6	24.2	17.6	13.2	8.8	8.8
82.5°	393.6	164.9	22.0	13.2	8.8	4.4	2.2	0.0	0.0	0.0	0.0
85°	81.4	19.8	11.0	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.4	4.4	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)