

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: P885140

Luminaire Tested: **NAV-SB6B-740-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-740-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27900 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

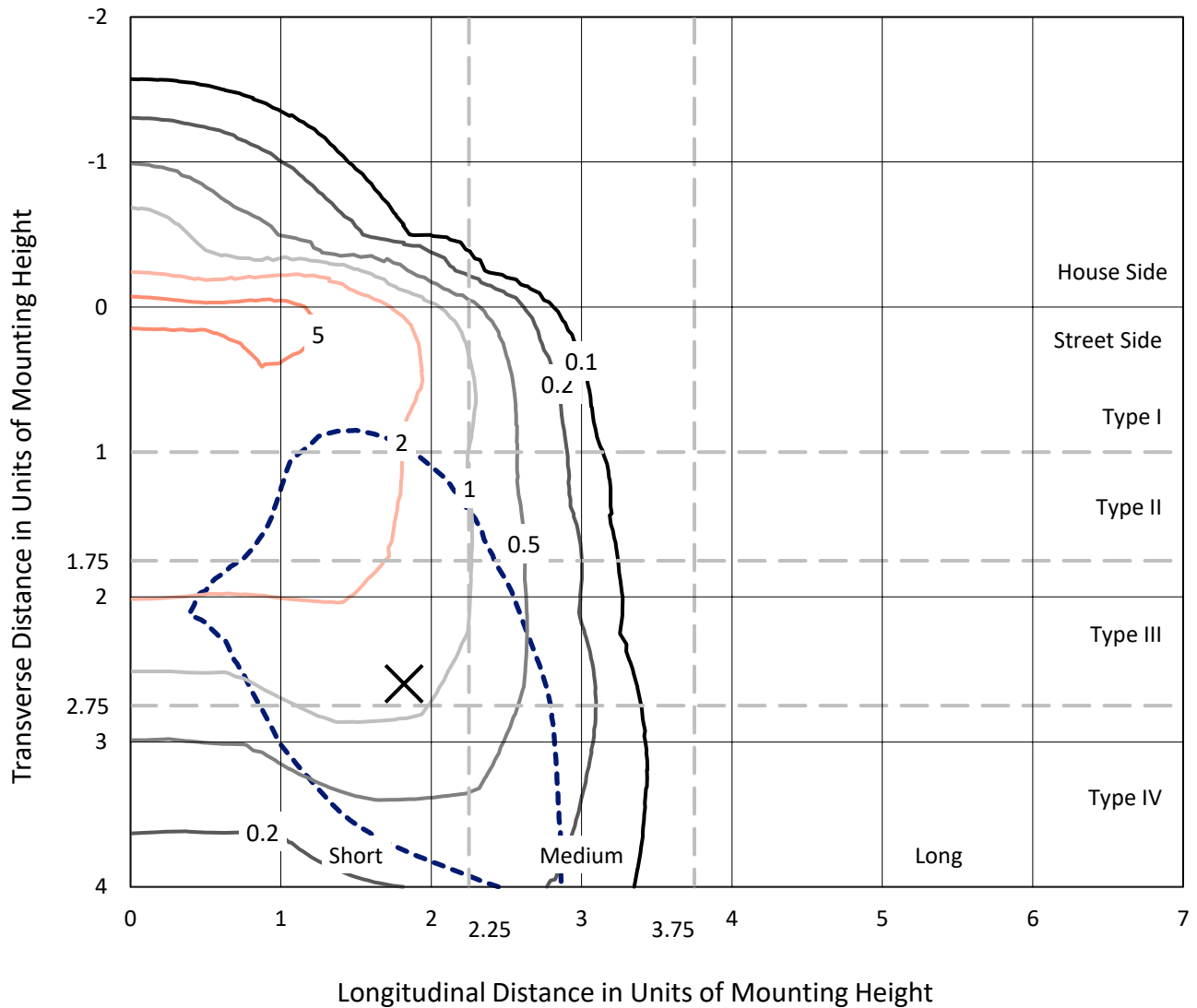
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

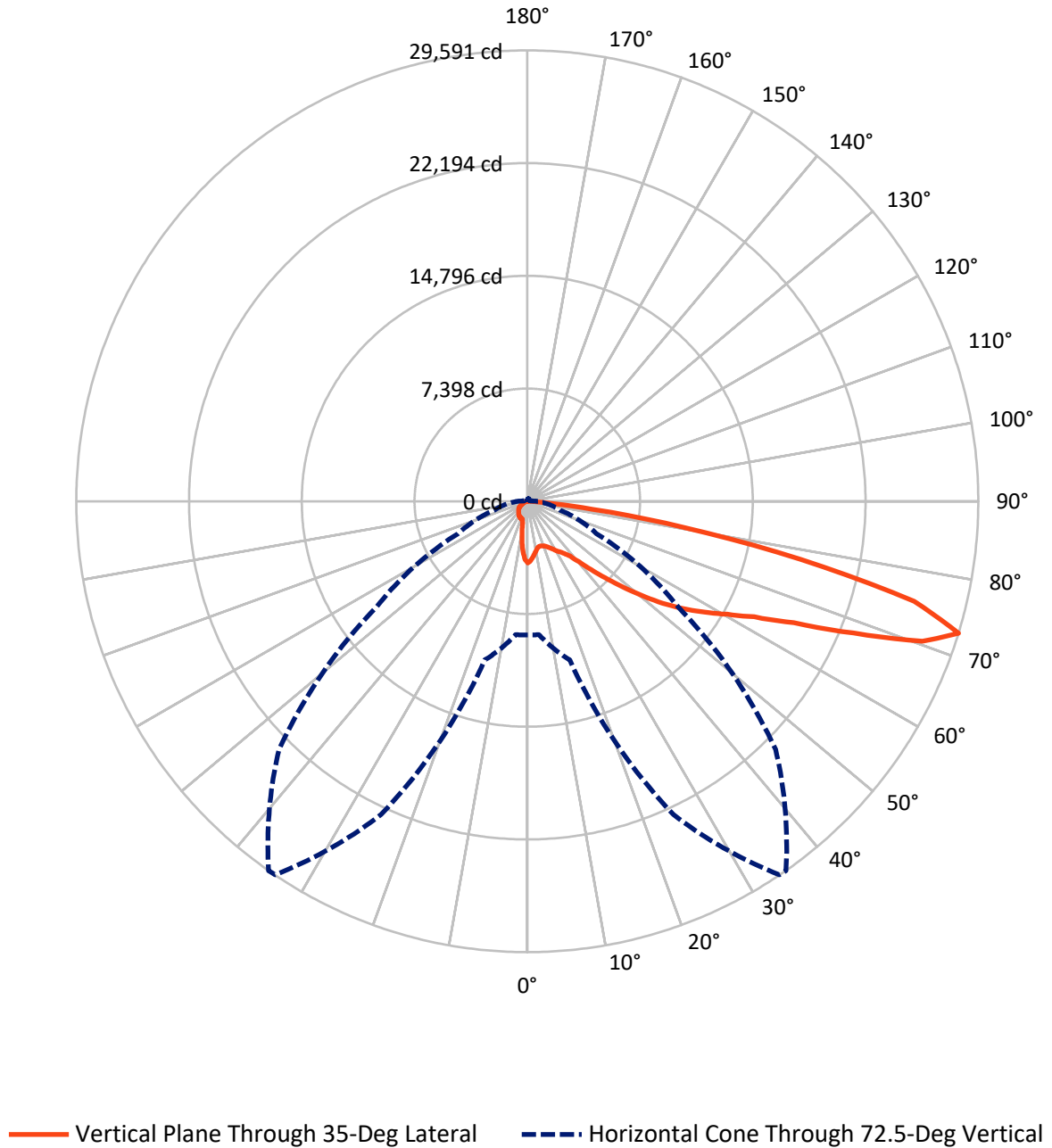
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3140.0	0.0	3140.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	24760.0	0.0	24760.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	27900.0	0.0	27900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.3	1.2
10°-20°	777.3	2.8
20°-30°	1262.8	4.5
30°-40°	2106.9	7.6
40°-50°	3986.3	14.3
50°-60°	6334.2	22.7
60°-70°	7835.8	28.1
70°-80°	4870.8	17.5
80°-90°	393.6	1.4
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°	27900.0	100.0
0°-180°	27900.0	100.0

Coefficient of Utilization



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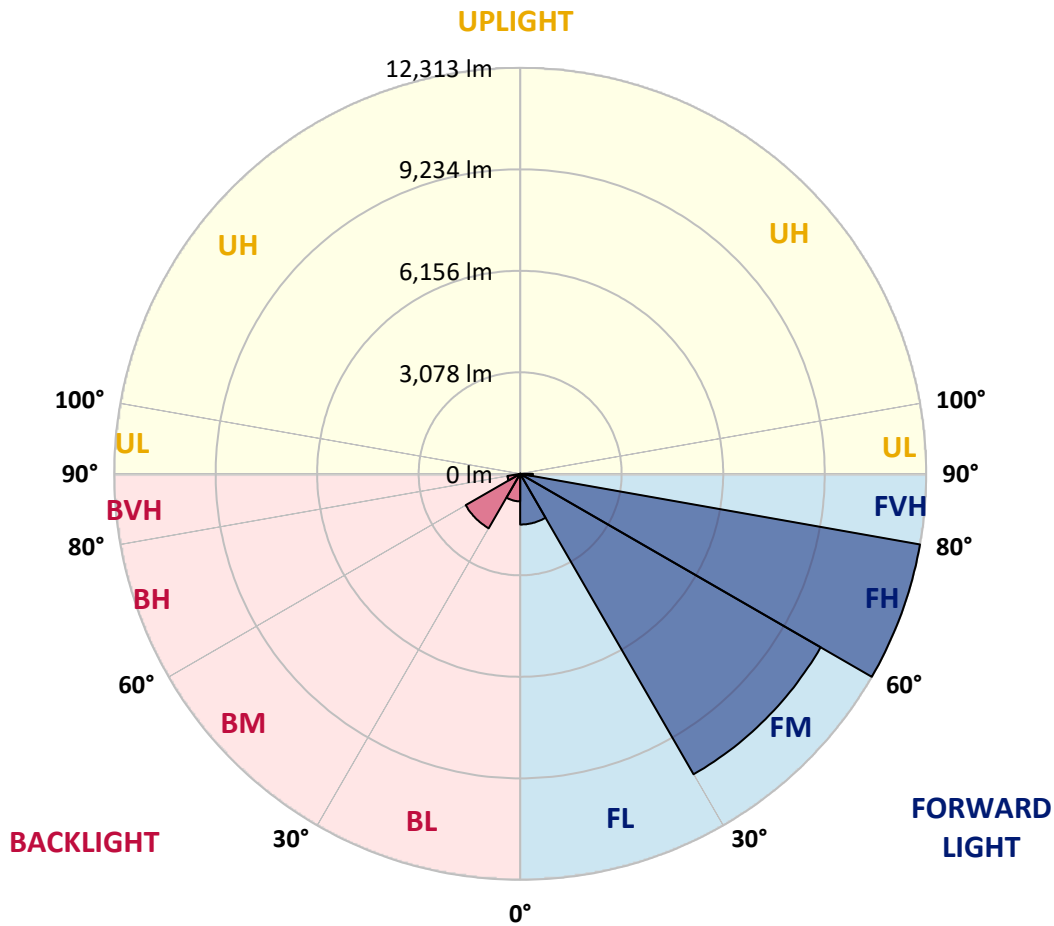
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1538.0	5.5			
FM (30°-60°)	10521.1	37.7			
FH (60°-80°)	12312.6	44.1			G5
FVH (80°-90°)	388.3	1.4			G3/500
BL (0°-30°)	834.4	3.0	B2/1000		
BM (30°-60°)	1906.3	6.8	B2/2500		
BH (60°-80°)	394.0	1.4	B1/500		G1/500
BVH (80°-90°)	5.4	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6
2.5°	3863.7	3896.5	3902.6	3912.8	3912.8	3925.1	3945.5	3974.1	4021.2	4045.7	4062.0
5°	3561.2	3585.7	3616.4	3640.9	3687.9	3694.1	3773.8	3851.5	3959.8	4041.6	4098.8
7.5°	3256.6	3285.2	3326.1	3385.4	3446.7	3465.1	3585.7	3716.6	3888.3	4041.6	4137.7
10°	3041.9	3044.0	3080.8	3140.1	3238.2	3260.7	3407.9	3593.9	3808.5	4017.1	4174.5
12.5°	2921.3	2935.6	2952.0	2997.0	3091.0	3105.3	3262.7	3481.5	3728.8	4002.8	4217.4
15°	2921.3	2931.5	2941.8	2964.2	3039.9	3052.2	3191.2	3409.9	3687.9	4008.9	4286.9
17.5°	2952.0	2968.3	2960.2	2986.7	3066.5	3074.6	3197.3	3389.5	3685.9	4047.7	4393.2
20°	3025.6	3037.8	3021.5	3037.8	3117.6	3133.9	3260.7	3428.3	3720.6	4115.2	4526.1
22.5°	3142.1	3148.2	3109.4	3121.7	3203.4	3223.9	3371.1	3538.7	3804.5	4223.5	4704.0
25°	3289.3	3301.6	3242.3	3256.6	3334.3	3358.8	3528.5	3704.3	3937.3	4372.8	4930.9
27.5°	3459.0	3465.1	3414.0	3412.0	3512.1	3546.9	3718.6	3908.7	4115.2	4560.9	5217.1
30°	3653.2	3671.6	3622.5	3614.3	3741.1	3769.7	3939.4	4160.2	4376.9	4843.0	5623.9
32.5°	3806.5	3820.8	3792.2	3812.6	3941.4	3963.9	4207.2	4515.9	4787.8	5243.7	6177.9
35°	4027.3	4035.5	3970.1	4006.8	4154.0	4211.3	4573.1	5014.7	5305.0	5746.6	6901.6
37.5°	4826.6	4826.6	4548.6	4366.6	4507.7	4558.8	5074.0	5642.3	5942.8	6421.2	7813.4
40°	5932.6	5914.2	5507.4	5135.3	5116.9	5217.1	5787.4	6433.4	6766.7	7230.7	8839.6
42.5°	7112.2	7083.5	6529.5	6161.6	6100.2	6135.0	6611.3	7408.6	7747.9	8218.1	9943.5
45°	8158.8	8150.7	7643.7	7149.0	7038.6	7149.0	7639.6	8549.3	8792.6	9287.3	11045.4
47.5°	9035.9	9035.9	8665.8	8342.8	8285.6	8351.0	9031.8	9814.7	9792.2	10426.0	12118.7
50°	10045.7	10037.6	9685.9	9546.9	9606.2	9698.2	10634.5	11147.6	10826.7	11544.2	13077.5
52.5°	10753.1	10802.1	10681.5	10659.0	10961.6	11121.0	12261.8	12451.9	11752.7	12605.2	13795.0
55°	11313.2	11370.5	11509.5	11666.9	12249.5	12458.0	13837.9	13688.7	12527.5	13525.2	14208.0
57.5°	12106.4	12024.6	12239.3	12550.0	13492.4	13743.9	15365.0	14856.0	13151.0	14271.3	14252.9
60°	13069.3	13081.5	13118.3	13510.8	14733.3	15056.3	16869.6	15959.9	13551.7	14729.3	13754.1
62.5°	14226.4	14244.8	14320.4	14923.5	16399.5	16704.1	18472.4	16863.5	13735.7	14600.5	12466.2
65°	14146.6	14224.3	15068.6	17131.3	18932.4	19232.9	20342.9	17497.3	13457.7	13422.9	10150.0
67.5°	12887.3	13014.1	14426.7	19768.5	22751.1	23086.4	22603.9	17622.0	12257.7	10438.2	6621.5
70°	11235.5	11280.5	12979.3	22139.9	27173.0	27512.3	24627.8	16250.2	9301.6	5822.2	2966.3
72.5°	8774.2	8784.4	10777.6	22689.8	29573.0	29591.4	23039.4	12063.5	5002.4	2236.5	1030.3
75°	6267.9	6206.5	7218.5	18400.8	26017.9	26226.5	17272.4	5658.7	1911.4	1056.9	513.1
77.5°	3360.8	3428.3	4084.5	10912.5	17973.6	18329.3	9424.3	1631.4	973.1	719.6	339.4
80°	1038.5	1095.8	1674.3	4996.3	10180.7	10395.3	3493.7	725.7	678.7	513.1	222.8
82.5°	327.1	339.4	780.9	2099.5	4225.6	4323.7	1011.9	410.9	464.1	339.4	130.8
85°	94.0	96.1	347.5	783.0	1044.6	1065.1	284.2	159.5	265.8	210.6	67.5
87.5°	10.2	32.7	130.8	130.8	92.0	89.9	30.7	34.8	75.6	26.6	12.3
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°	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6
2.5°	4051.8	4053.9	4027.3	3982.3	3933.3	3892.4	3841.3	3800.4	3771.8	3763.6	3777.9
5°	4080.4	4066.1	3990.5	3853.5	3690.0	3548.9	3391.5	3266.8	3185.0	3150.3	3162.5
7.5°	4123.4	4082.5	3916.9	3647.0	3334.3	3056.2	2774.1	2555.4	2416.4	2346.9	2357.1
10°	4160.2	4078.4	3794.2	3348.6	2870.2	2449.1	2068.8	1805.1	1657.9	1588.4	1590.5
12.5°	4194.9	4076.4	3634.8	2994.9	2346.9	1831.7	1478.0	1347.2	1306.3	1292.0	1287.9
15°	4260.3	4082.5	3434.4	2590.1	1825.6	1384.0	1255.2	1253.2	1261.3	1257.3	1255.2
17.5°	4350.3	4088.6	3207.5	2160.8	1408.5	1220.5	1214.3	1232.7	1245.0	1238.9	1236.8
20°	4466.8	4113.2	2966.3	1735.6	1210.2	1179.6	1193.9	1210.2	1220.5	1210.2	1208.2
22.5°	4630.4	4156.1	2702.6	1394.2	1146.9	1155.0	1167.3	1185.7	1195.9	1181.6	1179.6
25°	4830.7	4223.5	2443.0	1212.3	1116.2	1126.4	1144.8	1165.3	1177.5	1163.2	1161.2
27.5°	5090.3	4331.9	2203.8	1171.4	1085.5	1091.7	1118.2	1148.9	1165.3	1146.9	1146.9
30°	5466.5	4509.7	1997.3	1189.8	1067.1	1052.8	1089.6	1132.5	1150.9	1134.6	1132.5
32.5°	5965.3	4761.2	1870.5	1218.4	1059.0	1007.8	1042.6	1097.8	1128.5	1118.2	1118.2
35°	6619.5	5143.5	1821.5	1251.1	1052.8	960.8	985.4	1044.6	1097.8	1108.0	1108.0
37.5°	7412.7	5675.0	1835.8	1265.4	1034.4	922.0	934.2	985.4	1054.9	1087.6	1095.8
40°	8314.2	6294.4	1917.6	1251.1	1014.0	889.3	891.3	930.2	991.5	1040.6	1056.9
42.5°	9244.4	7018.1	2068.8	1198.0	995.6	860.7	854.5	881.1	922.0	956.7	971.0
45°	10129.6	7762.2	2218.1	1124.4	973.1	832.0	817.7	827.9	836.1	850.4	858.6
47.5°	10902.3	8285.6	2175.1	1056.9	942.4	799.3	774.8	770.7	746.2	744.1	742.1
50°	11435.9	8400.1	1931.9	989.4	897.5	762.5	723.7	699.2	656.2	635.8	637.8
52.5°	11605.5	7948.3	1578.2	922.0	823.9	713.5	658.3	619.4	566.3	547.9	545.8
55°	11380.7	7063.1	1261.3	840.2	721.6	648.0	586.7	535.6	492.7	470.2	470.2
57.5°	10830.8	5936.7	997.6	744.1	613.3	574.5	513.1	462.0	425.2	402.7	398.6
60°	9919.0	4714.2	789.1	629.6	523.3	494.7	431.3	398.6	365.9	339.4	333.2
62.5°	8535.0	3364.9	619.4	498.8	437.5	404.8	368.0	343.4	304.6	267.8	261.7
65°	6660.4	2058.6	478.4	365.9	351.6	335.3	312.8	290.3	243.3	206.5	200.3
67.5°	4201.1	975.1	341.4	276.0	278.0	269.8	259.6	241.2	206.5	173.8	169.7
70°	1850.1	472.2	224.9	210.6	206.5	206.5	214.7	208.5	175.8	145.1	139.0
72.5°	629.6	253.5	167.6	159.5	149.2	147.2	179.9	173.8	141.1	112.4	106.3
75°	329.1	169.7	122.7	114.5	89.9	108.3	143.1	134.9	100.2	73.6	67.5
77.5°	214.7	120.6	83.8	73.6	51.1	71.6	106.3	94.0	59.3	36.8	32.7
80°	134.9	79.7	49.1	34.8	24.5	38.8	57.2	40.9	22.5	8.2	6.1
82.5°	71.6	40.9	18.4	12.3	10.2	12.3	14.3	10.2	4.1	0.0	0.0
85°	28.6	14.3	6.1	4.1	2.0	0.0	4.1	2.0	0.0	0.0	0.0
87.5°	10.2	2.0	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)