

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: P970035

Luminaire Tested: **NAV-SB6A-835-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-835-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19920.9 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

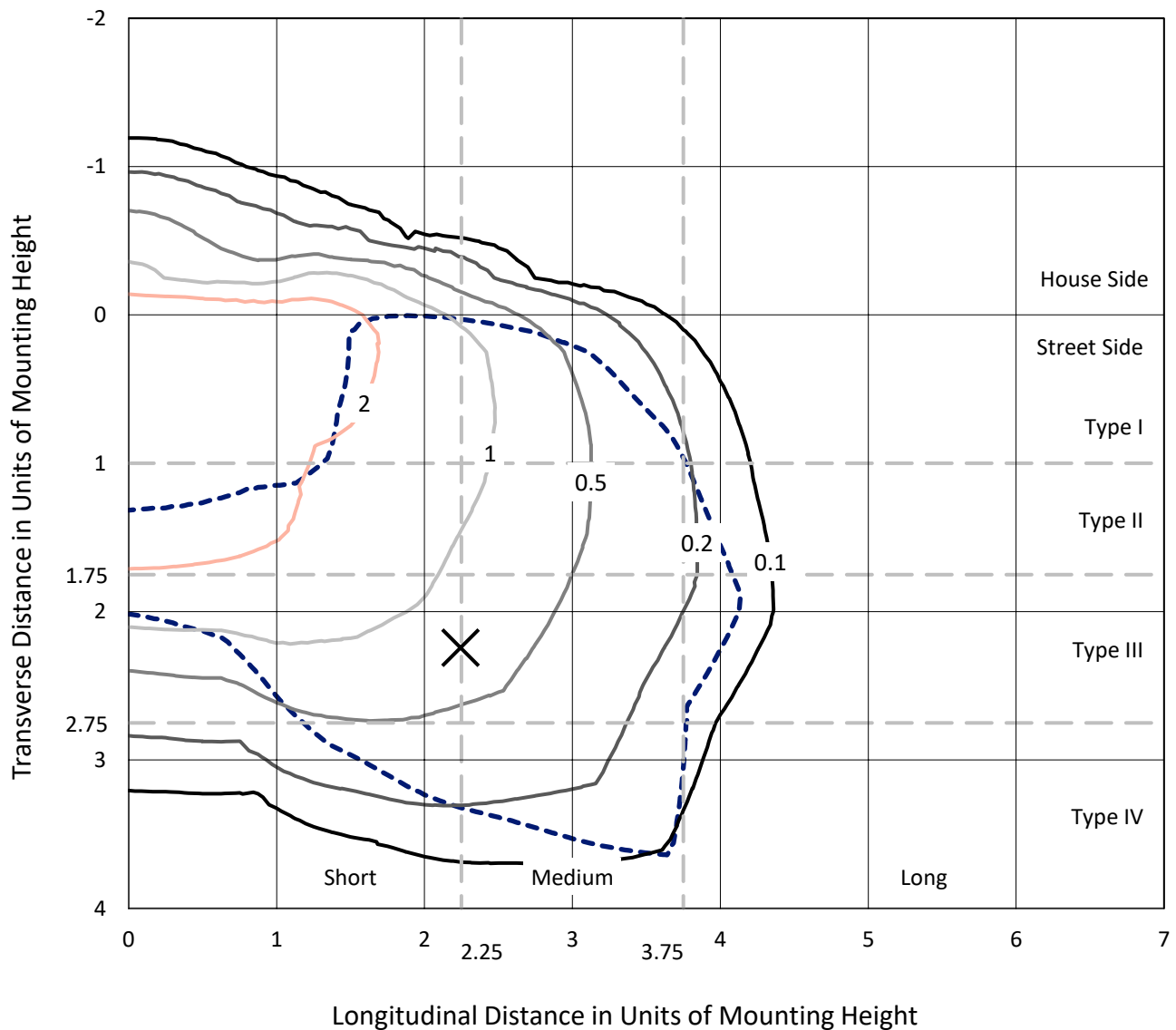
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

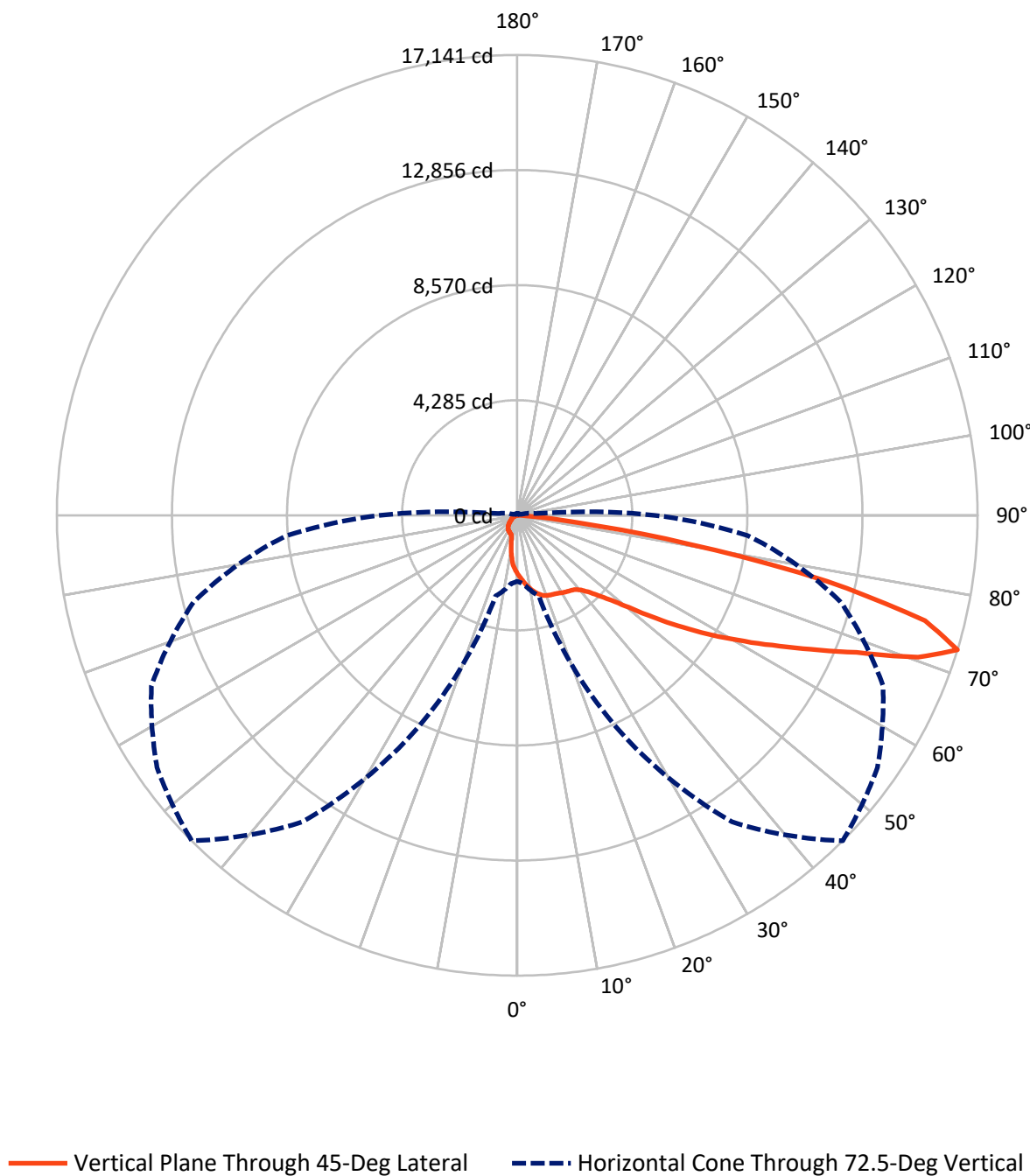
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2093.1	0.0	2093.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	17827.8	0.0	17827.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	19920.9	0.0	19920.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	1.0
10°-20°	600.9	3.0
20°-30°	986.9	5.0
30°-40°	1399.6	7.0
40°-50°	2313.4	11.6
50°-60°	4155.7	20.9
60°-70°	5770.4	29.0
70°-80°	4185.7	21.0
80°-90°	302.6	1.5
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°	19920.9	100.0
0°-180°	19920.9	100.0

Coefficient of Utilization



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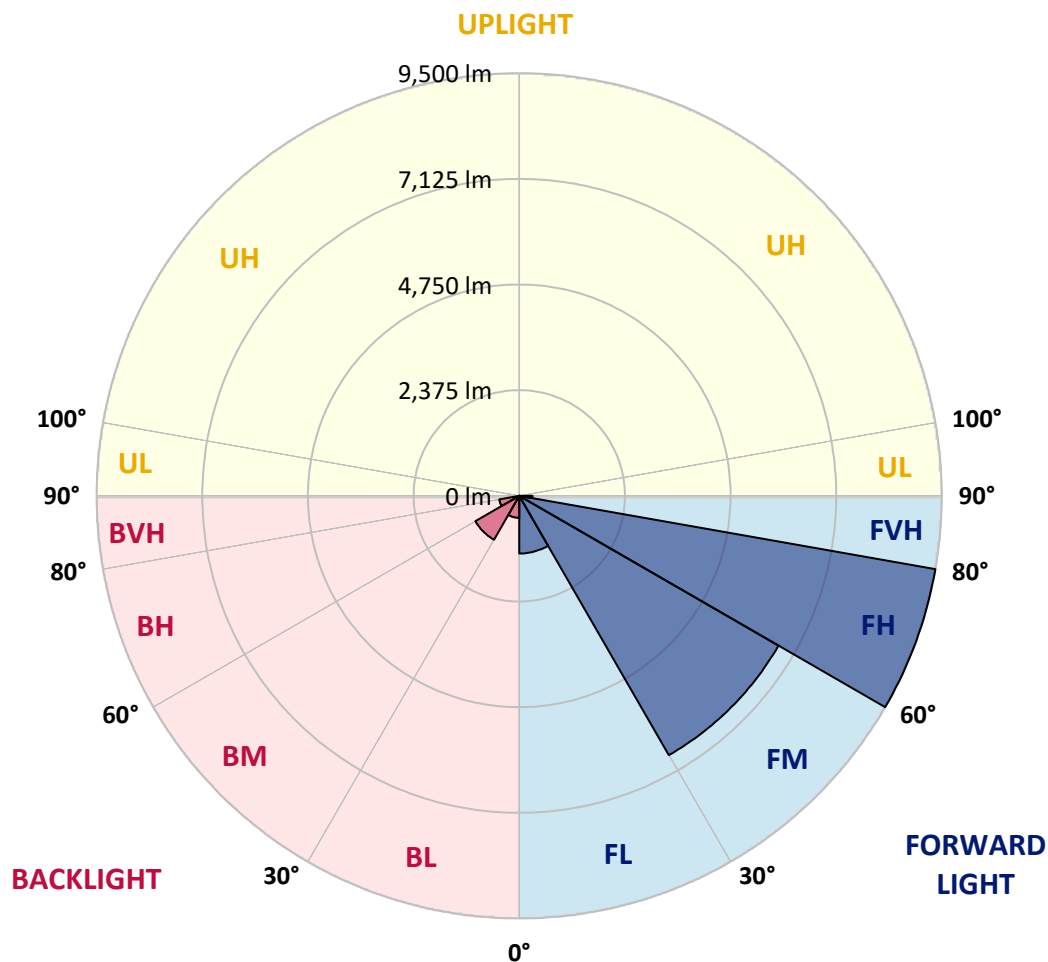
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1297.6	6.5			
FM	(30°-60°)	6730.3	33.8			
FH	(60°-80°)	9499.7	47.7			G4/12000
FVH	(80°-90°)	300.1	1.5			G3/500
BL	(0°-30°)	495.8	2.5	B1/500		
BM	(30°-60°)	1138.4	5.7	B2/2500		
BH	(60°-80°)	456.4	2.3	B1/500		G1/500
BVH	(80°-90°)	2.5	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2182.3	2182.3	2182.3	2182.3	2182.3	2182.3	2182.3	2182.3	2182.3	2182.3	2182.3
2.5°	2383.6	2387.7	2385.0	2368.7	2341.5	2326.5	2318.3	2291.2	2273.4	2242.2	2209.6
5°	2602.6	2618.9	2609.3	2576.7	2525.0	2488.3	2477.4	2421.7	2371.3	2312.9	2245.0
7.5°	2835.0	2843.2	2825.5	2783.4	2714.0	2651.5	2641.9	2564.4	2484.2	2394.5	2302.0
10°	3036.3	3045.8	3018.6	2957.4	2878.5	2801.0	2787.5	2701.8	2606.6	2496.5	2378.2
12.5°	3204.9	3214.4	3179.0	3105.6	3018.6	2938.4	2924.8	2835.0	2730.4	2608.0	2461.1
15°	3332.7	3350.4	3302.8	3223.9	3130.1	3049.9	3043.1	2954.7	2852.7	2716.8	2560.3
17.5°	3407.5	3425.1	3380.3	3285.1	3204.9	3136.9	3128.7	3055.3	2960.1	2829.6	2656.9
20°	3419.7	3436.0	3388.4	3305.5	3238.9	3184.5	3180.4	3127.4	3058.1	2932.9	2761.7
22.5°	3383.0	3403.4	3360.0	3293.3	3247.1	3218.5	3213.1	3183.1	3143.7	3037.7	2859.5
25°	3345.0	3361.3	3328.6	3270.2	3245.7	3243.0	3247.1	3241.6	3233.5	3143.7	2973.7
27.5°	3342.2	3360.0	3323.2	3267.4	3253.9	3282.4	3286.5	3312.3	3319.2	3240.2	3083.9
30°	3365.4	3377.6	3342.2	3283.8	3276.9	3342.2	3343.6	3389.8	3400.7	3321.8	3192.7
32.5°	3415.6	3429.2	3393.9	3308.2	3298.8	3389.8	3393.9	3455.1	3472.8	3408.8	3306.9
35°	3534.0	3550.3	3509.5	3376.2	3342.2	3434.7	3447.0	3519.0	3554.4	3501.3	3425.1
37.5°	3829.0	3781.4	3725.7	3513.6	3441.4	3505.4	3525.8	3610.0	3672.7	3611.5	3566.6
40°	4561.9	4412.3	4238.3	3747.4	3615.6	3656.3	3672.7	3756.9	3842.6	3782.8	3761.0
42.5°	5661.9	5485.2	5205.1	4285.9	3878.0	3898.4	3910.6	3984.1	4105.0	4057.5	4062.9
45°	6642.3	6578.3	6292.9	5205.1	4368.9	4268.2	4283.2	4321.2	4499.3	4481.7	4517.1
47.5°	7395.6	7358.9	7138.6	6260.2	5198.3	4721.0	4763.2	4780.8	5037.8	5100.4	5195.5
50°	7974.8	7961.3	7764.1	7198.5	6282.0	5388.6	5403.6	5365.5	5750.4	5905.3	6086.1
52.5°	8521.4	8567.7	8422.2	8070.0	7439.1	6263.0	6260.2	6080.7	6600.2	6834.0	7142.7
55°	9015.1	9031.4	9046.3	8959.3	8603.0	7258.2	7232.4	6938.7	7585.9	7828.0	8162.5
57.5°	9478.7	9485.6	9618.8	9796.8	9814.6	8327.0	8279.4	7927.2	8662.9	8835.6	9040.9
60°	9790.1	9821.3	10102.8	10597.8	10814.0	9429.8	9404.0	9044.9	9758.8	9839.1	9800.9
62.5°	9341.3	9531.8	10241.5	11223.2	11757.7	10652.2	10639.9	10302.7	10911.8	10846.7	10520.3
65°	7561.5	7883.8	9131.9	11646.2	12683.6	12017.3	12035.0	11676.1	12096.2	11884.1	11105.0
67.5°	5289.4	5629.3	7106.0	11680.1	13718.4	13620.5	13722.4	13159.5	13353.9	12878.0	11243.6
70°	3657.7	3833.1	4794.4	10948.5	14524.7	15828.7	15826.0	14981.6	14604.9	13330.8	10536.6
72.5°	2459.8	2550.8	3113.7	8686.0	13931.8	17140.8	17061.9	16374.0	15026.4	12467.4	8608.5
75°	1037.5	1104.1	1441.4	4881.5	11022.0	15681.8	15468.4	14470.3	13351.2	9817.2	5371.0
77.5°	329.0	357.6	568.4	1747.2	6071.2	11787.5	11561.8	9036.8	8948.5	4924.9	1963.5
80°	156.4	182.2	319.5	701.6	2389.1	6411.2	6379.9	4099.6	3849.4	1329.8	394.3
82.5°	68.0	80.3	176.8	375.3	1068.8	2287.1	2333.3	1395.1	1154.5	504.5	121.1
85°	21.7	28.6	81.6	172.7	451.4	568.4	561.6	331.8	465.0	274.7	42.1
87.5°	0.0	0.0	27.2	39.5	46.2	32.6	36.7	28.6	129.1	76.2	15.0
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°	2182.3	2182.3	2182.3	2182.3	2182.3	2182.3	2182.3	2182.3	2182.3	2182.3	2182.3
2.5°	2193.3	2171.5	2133.4	2098.1	2066.8	2035.5	2016.5	1989.3	1986.6	1986.6	1993.4
5°	2208.3	2172.9	2104.8	2032.8	1949.9	1871.0	1792.1	1716.0	1691.6	1673.8	1682.0
7.5°	2251.7	2196.0	2088.5	1951.2	1793.4	1620.8	1499.8	1369.3	1319.0	1291.7	1295.8
10°	2314.2	2238.1	2074.9	1834.2	1578.6	1343.5	1170.8	1029.3	975.0	951.8	951.8
12.5°	2383.6	2289.7	2050.5	1688.8	1343.5	1062.0	893.4	828.1	819.9	819.9	819.9
15°	2466.6	2352.4	2008.3	1517.5	1097.3	840.3	780.5	783.2	791.4	796.8	796.8
17.5°	2552.2	2419.0	1941.7	1325.7	879.8	756.0	757.4	761.5	768.2	773.7	773.7
20°	2644.7	2485.6	1853.3	1121.8	754.6	731.5	735.6	739.7	745.2	747.8	749.2
22.5°	2743.9	2548.1	1748.6	921.9	712.5	711.1	712.5	716.6	723.3	723.3	726.1
25°	2850.0	2617.4	1628.9	776.4	690.7	690.7	693.5	696.2	701.6	701.6	702.9
27.5°	2958.8	2681.4	1502.5	700.3	671.7	670.3	670.3	674.4	677.1	678.6	679.9
30°	3078.5	2756.2	1376.1	684.0	656.7	650.0	645.9	648.6	651.3	652.7	655.4
32.5°	3200.8	2828.3	1263.2	690.7	641.8	629.6	615.9	613.3	613.3	618.7	622.8
35°	3336.8	2907.1	1176.2	713.8	633.7	599.6	577.9	565.7	567.0	575.1	579.2
37.5°	3500.0	3002.3	1112.2	734.2	628.2	565.7	530.3	515.4	505.8	515.4	512.6
40°	3713.5	3142.3	1066.0	750.6	621.4	526.2	478.7	454.2	436.4	441.9	439.2
42.5°	4027.5	3362.6	1048.4	751.9	606.5	480.0	425.6	393.0	367.2	368.5	363.1
45°	4468.1	3710.7	1139.5	734.2	573.8	429.7	369.8	326.4	310.1	306.0	300.5
47.5°	5071.8	4217.9	1350.2	697.5	526.2	380.7	315.5	278.7	266.5	259.7	255.6
50°	5880.8	4869.2	1584.1	656.7	478.7	334.5	270.6	247.4	239.3	232.5	231.1
52.5°	6819.1	5530.1	1775.8	615.9	431.0	293.7	242.0	228.5	221.6	216.2	214.8
55°	7679.8	5985.6	1764.9	572.5	384.8	261.1	221.6	213.5	205.3	199.9	197.2
57.5°	8215.5	6049.4	1454.9	524.9	331.8	235.2	202.6	197.2	187.7	180.8	179.5
60°	8461.6	5685.1	1019.8	462.3	278.7	210.7	182.2	179.5	167.3	157.7	155.0
62.5°	8506.5	5007.9	679.9	384.8	232.5	187.7	161.8	157.7	141.4	125.0	117.0
65°	8324.3	4039.7	470.5	300.5	198.5	163.2	138.7	130.6	112.9	96.6	91.1
67.5°	7747.8	2836.4	327.7	216.2	168.6	129.1	110.2	107.4	93.8	80.3	76.2
70°	6691.3	1616.7	218.9	161.8	133.2	88.4	87.0	89.8	76.2	65.3	59.9
72.5°	5130.3	739.7	136.0	118.3	91.1	59.9	69.4	70.7	58.4	49.0	43.6
75°	3020.0	316.8	85.7	76.2	46.2	39.5	50.3	51.7	39.5	31.3	27.2
77.5°	1028.0	119.6	54.4	44.9	23.2	21.7	32.6	32.6	21.7	12.2	9.5
80°	233.9	44.9	27.2	17.6	10.9	9.5	10.9	9.5	5.4	1.3	0.0
82.5°	66.6	17.6	10.9	6.8	4.1	4.1	1.3	0.0	0.0	0.0	0.0
85°	19.1	8.2	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	1.3	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)