

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: P969849

Luminaire Tested: **NAV-SB6A-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969849
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-735-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 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: 21476.8 lumens
Efficiency: N/A
Efficacy: 125.7 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



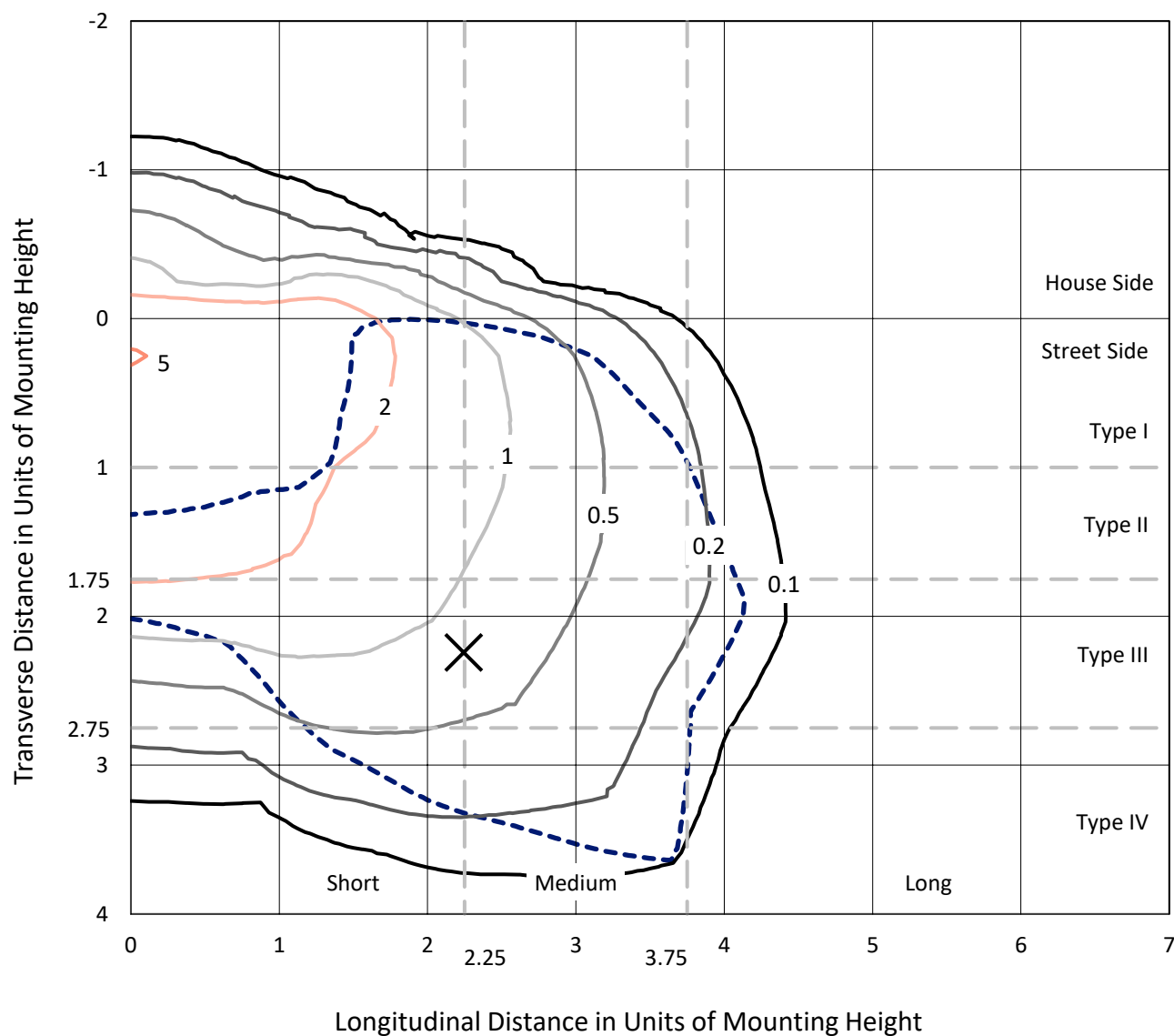
REPORT NUMBER: P969849

CATALOG NUMBER: NAV-SB6A-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

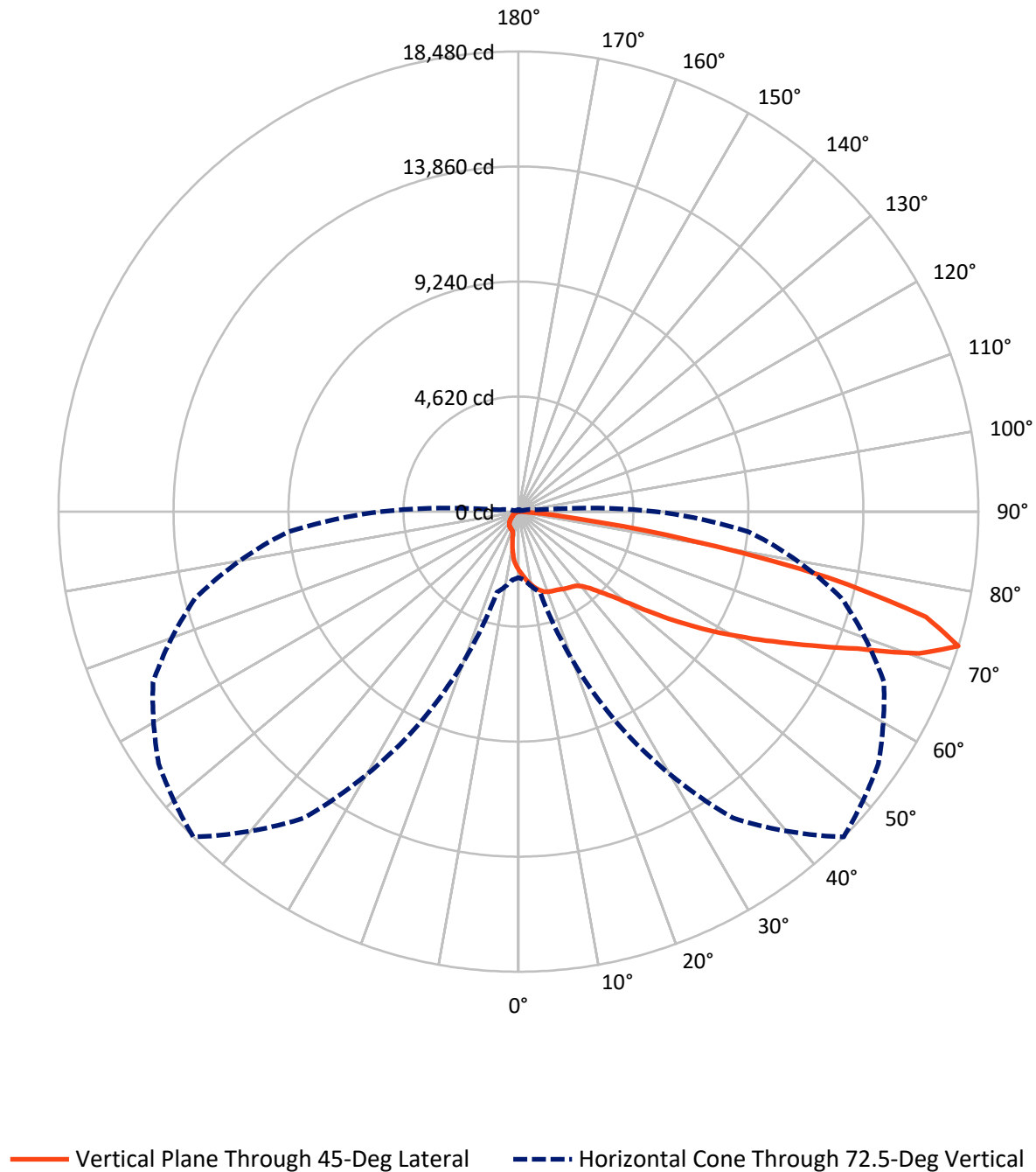


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc

Type IV - Short - N/A

REPORT NUMBER: P969849
CATALOG NUMBER: NAV-SB6A-735-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P969849

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2256.6	0.0	2256.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	19220.2	0.0	19220.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	21476.8	0.0	21476.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.7	1.0
10°-20°	647.9	3.0
20°-30°	1063.9	5.0
30°-40°	1508.9	7.0
40°-50°	2494.1	11.6
50°-60°	4480.3	20.9
60°-70°	6221.1	29.0
70°-80°	4512.6	21.0
80°-90°	326.2	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°	21476.8	100.0
0°-180°	21476.8	100.0

Coefficient of Utilization



REPORT NUMBER: P969849

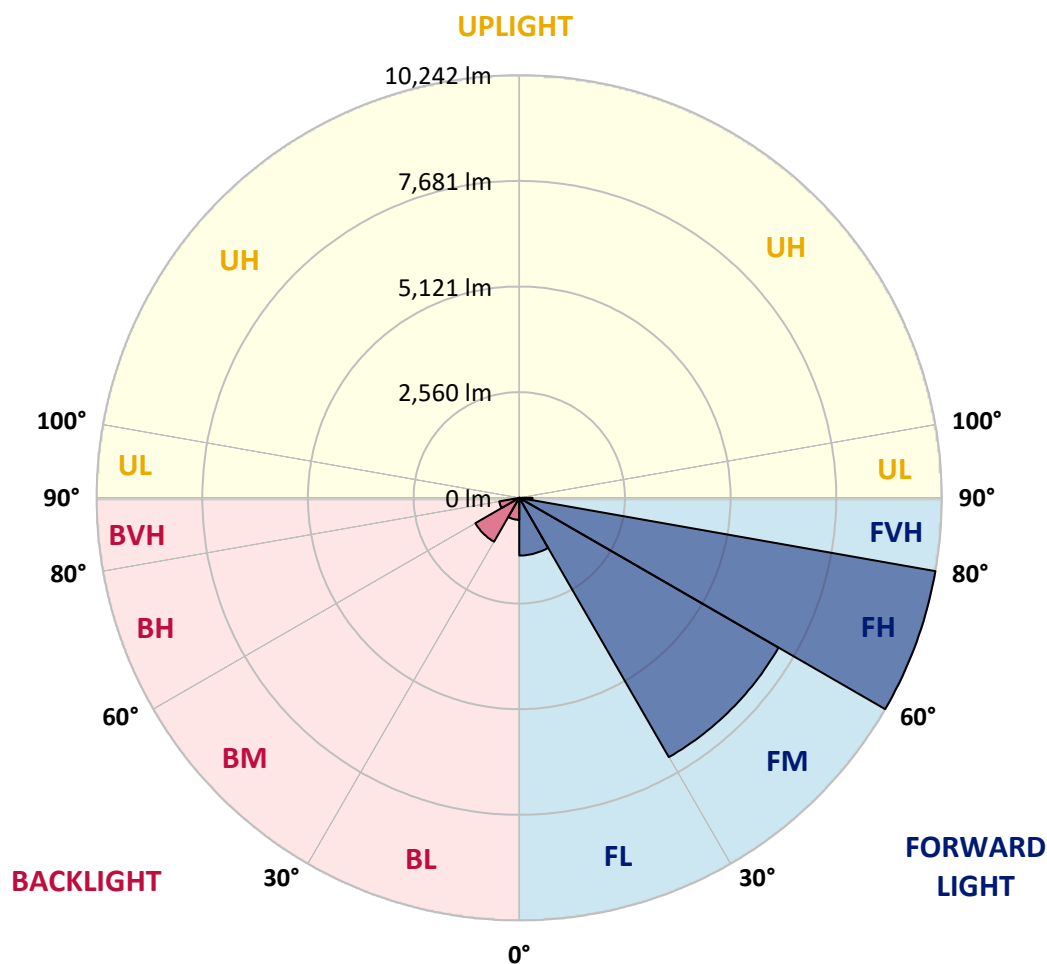
CATALOG NUMBER: NAV-SB6A-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1399.0	6.5			
FM	(30°-60°)	7256.0	33.8			
FH	(60°-80°)	10241.7	47.7			G4/12000
FVH	(80°-90°)	323.5	1.5			G3/500
BL	(0°-30°)	534.5	2.5	B2/1000		
BM	(30°-60°)	1227.3	5.7	B2/2500		
BH	(60°-80°)	492.1	2.3	B1/500		G1/500
BVH	(80°-90°)	2.7	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



REPORT NUMBER: P969849

CATALOG NUMBER: NAV-SB6A-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8
2.5°	2569.8	2574.2	2571.2	2553.7	2524.4	2508.2	2499.5	2470.1	2451.1	2417.4	2382.1
5°	2805.8	2823.4	2813.1	2778.0	2722.3	2682.6	2670.9	2610.9	2556.6	2493.5	2420.2
7.5°	3056.4	3065.3	3046.2	3000.8	2926.0	2858.6	2848.3	2764.7	2678.2	2581.6	2481.8
10°	3273.4	3283.7	3254.4	3188.5	3103.4	3019.9	3005.2	2912.8	2810.2	2691.4	2563.9
12.5°	3455.2	3465.5	3427.4	3348.2	3254.4	3167.9	3153.2	3056.4	2943.6	2811.7	2653.3
15°	3593.0	3612.1	3560.7	3475.8	3374.6	3288.1	3280.8	3185.5	3075.5	2928.9	2760.3
17.5°	3673.6	3692.7	3644.3	3541.7	3455.2	3381.9	3373.2	3293.9	3191.3	3050.6	2864.5
20°	3686.8	3704.5	3653.1	3563.7	3491.9	3433.2	3428.8	3371.6	3296.9	3162.0	2977.3
22.5°	3647.3	3669.3	3622.4	3550.5	3500.7	3469.8	3464.0	3431.8	3389.3	3274.9	3082.9
25°	3606.3	3623.8	3588.6	3525.6	3499.1	3496.3	3500.7	3494.8	3486.0	3389.3	3206.0
27.5°	3603.3	3622.4	3582.8	3522.6	3508.0	3538.8	3543.2	3571.0	3578.4	3493.3	3324.8
30°	3628.2	3641.4	3603.3	3540.2	3532.9	3603.3	3604.7	3654.5	3666.3	3581.2	3442.1
32.5°	3682.4	3697.1	3658.9	3566.6	3556.3	3654.5	3658.9	3725.0	3744.0	3675.1	3565.2
35°	3809.9	3827.6	3783.6	3639.9	3603.3	3702.9	3716.1	3793.8	3832.0	3774.8	3692.7
37.5°	4128.1	4076.7	4016.7	3788.0	3710.3	3779.2	3801.2	3892.0	3959.5	3893.6	3845.2
40°	4918.3	4756.9	4569.3	4040.1	3898.0	3941.9	3959.5	4050.4	4142.7	4078.3	4054.8
42.5°	6104.2	5913.6	5611.6	4620.6	4180.9	4202.8	4216.0	4295.2	4425.6	4374.4	4380.2
45°	7161.2	7092.2	6784.4	5611.6	4710.1	4601.5	4617.7	4658.7	4850.8	4831.7	4869.9
47.5°	7973.3	7933.7	7696.2	6749.2	5604.3	5089.7	5135.1	5154.2	5431.3	5498.7	5601.3
50°	8597.7	8583.0	8370.6	7760.7	6772.7	5809.5	5825.7	5784.6	6199.4	6366.6	6561.5
52.5°	9187.1	9236.9	9080.1	8700.3	8020.1	6752.1	6749.2	6555.7	7115.7	7367.8	7700.6
55°	9719.2	9736.8	9752.9	9659.1	9275.0	7825.2	7797.4	7480.7	8178.5	8439.4	8800.0
57.5°	10219.0	10226.4	10370.0	10562.1	10581.2	8977.4	8926.1	8546.4	9339.5	9525.6	9747.0
60°	10554.7	10588.5	10892.0	11425.6	11658.7	10166.3	10138.5	9751.4	10521.0	10607.5	10566.5
62.5°	10071.0	10276.2	11041.4	12099.8	12676.0	11484.2	11471.0	11107.4	11764.1	11693.8	11341.9
65°	8152.1	8499.5	9845.2	12555.7	13674.3	12956.0	12975.1	12588.0	13041.0	12812.3	11972.3
67.5°	5702.5	6069.0	7661.0	12592.4	14789.8	14684.4	14794.2	14187.3	14396.9	13883.9	12121.9
70°	3943.4	4132.5	5168.9	11803.7	15659.1	17065.0	17062.0	16151.7	15745.6	14372.0	11359.6
72.5°	2651.9	2750.1	3357.0	9364.4	15020.0	18479.6	18394.6	17652.9	16200.1	13441.2	9280.9
75°	1118.5	1190.3	1553.9	5262.8	11882.9	16906.7	16676.5	15600.5	14394.1	10584.0	5790.4
77.5°	354.8	385.5	612.7	1883.7	6545.4	12708.3	12464.9	9742.6	9647.3	5309.6	2116.8
80°	168.6	196.4	344.5	756.4	2575.6	6911.9	6878.2	4419.8	4150.1	1433.7	425.2
82.5°	73.3	86.5	190.5	404.6	1152.2	2465.7	2515.6	1504.1	1244.6	543.9	130.5
85°	23.5	30.7	87.9	186.1	486.7	612.7	605.5	357.7	501.3	296.1	45.4
87.5°	0.0	0.0	29.3	42.5	49.8	35.2	39.6	30.7	139.3	82.1	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P969849

CATALOG NUMBER: NAV-SB6A-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8	2352.8
2.5°	2364.6	2341.1	2300.1	2262.0	2228.2	2194.5	2174.0	2144.7	2141.7	2141.7	2149.1
5°	2380.7	2342.5	2269.2	2191.6	2102.2	2017.1	1932.1	1850.0	1823.6	1804.6	1813.3
7.5°	2427.6	2367.4	2251.7	2103.6	1933.6	1747.4	1616.9	1476.2	1422.0	1392.7	1397.1
10°	2495.1	2413.0	2237.1	1977.5	1701.9	1448.3	1262.2	1109.7	1051.0	1026.1	1026.1
12.5°	2569.8	2468.6	2210.6	1820.7	1448.3	1144.9	963.1	892.8	884.0	884.0	884.0
15°	2659.3	2536.1	2165.2	1636.0	1183.1	906.0	841.4	844.4	853.2	859.1	859.1
17.5°	2751.6	2607.9	2093.4	1429.3	948.4	815.1	816.5	820.9	828.3	834.1	834.1
20°	2851.2	2679.8	1998.0	1209.4	813.6	788.6	793.0	797.4	803.3	806.3	807.7
22.5°	2958.3	2747.2	1885.2	993.9	768.1	766.7	768.1	772.5	779.9	779.9	782.8
25°	3072.6	2821.9	1756.2	837.0	744.7	744.7	747.6	750.6	756.4	756.4	757.9
27.5°	3189.9	2890.8	1619.9	754.9	724.2	722.7	722.7	727.1	730.0	731.5	733.0
30°	3318.8	2971.5	1483.5	737.4	708.1	700.7	696.3	699.3	702.2	703.7	706.5
32.5°	3450.9	3049.2	1361.8	744.7	691.9	678.8	664.1	661.1	661.1	667.0	671.4
35°	3597.4	3134.1	1268.0	769.6	683.2	646.5	623.0	609.9	611.3	620.1	624.5
37.5°	3773.3	3236.7	1199.1	791.6	677.2	609.9	571.7	555.6	545.3	555.6	552.7
40°	4003.4	3387.8	1149.3	809.2	669.9	567.3	516.0	489.6	470.6	476.4	473.4
42.5°	4342.1	3625.2	1130.3	810.7	653.8	517.5	458.8	423.6	395.8	397.3	391.4
45°	4817.1	4000.6	1228.5	791.6	618.6	463.2	398.7	351.8	334.3	329.8	324.0
47.5°	5468.0	4547.3	1455.7	752.0	567.3	410.5	340.1	300.5	287.3	280.0	275.6
50°	6340.1	5249.5	1707.9	708.1	516.0	360.6	291.7	266.8	258.0	250.7	249.2
52.5°	7351.7	5962.0	1914.5	664.1	464.7	316.6	261.0	246.3	238.9	233.1	231.6
55°	8279.6	6453.1	1902.8	617.2	414.8	281.5	238.9	230.1	221.4	215.5	212.6
57.5°	8857.2	6522.0	1568.6	565.9	357.7	253.6	218.4	212.6	202.3	195.0	193.5
60°	9122.5	6129.1	1099.4	498.5	300.5	227.2	196.4	193.5	180.3	170.0	167.1
62.5°	9170.9	5399.1	733.0	414.8	250.7	202.3	174.5	170.0	152.4	134.9	126.1
65°	8974.5	4355.3	507.2	324.0	214.0	175.9	149.5	140.7	121.7	104.0	98.2
67.5°	8352.9	3058.0	353.3	233.1	181.7	139.3	118.7	115.8	101.2	86.5	82.1
70°	7213.8	1743.0	236.1	174.5	143.7	95.3	93.8	96.8	82.1	70.3	64.5
72.5°	5531.0	797.4	146.6	127.5	98.2	64.5	74.7	76.3	63.0	52.8	46.9
75°	3255.8	341.5	92.4	82.1	49.8	42.5	54.2	55.7	42.5	33.7	29.3
77.5°	1108.2	129.0	58.6	48.4	24.9	23.5	35.2	35.2	23.5	13.2	10.2
80°	252.2	48.4	29.3	19.1	11.7	10.2	11.7	10.2	5.8	1.4	0.0
82.5°	71.9	19.1	11.7	7.4	4.4	4.4	1.4	0.0	0.0	0.0	0.0
85°	20.5	8.8	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	1.4	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)