

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: P965135

Luminaire Tested: **NAV-SB3D-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-740-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25068.4 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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



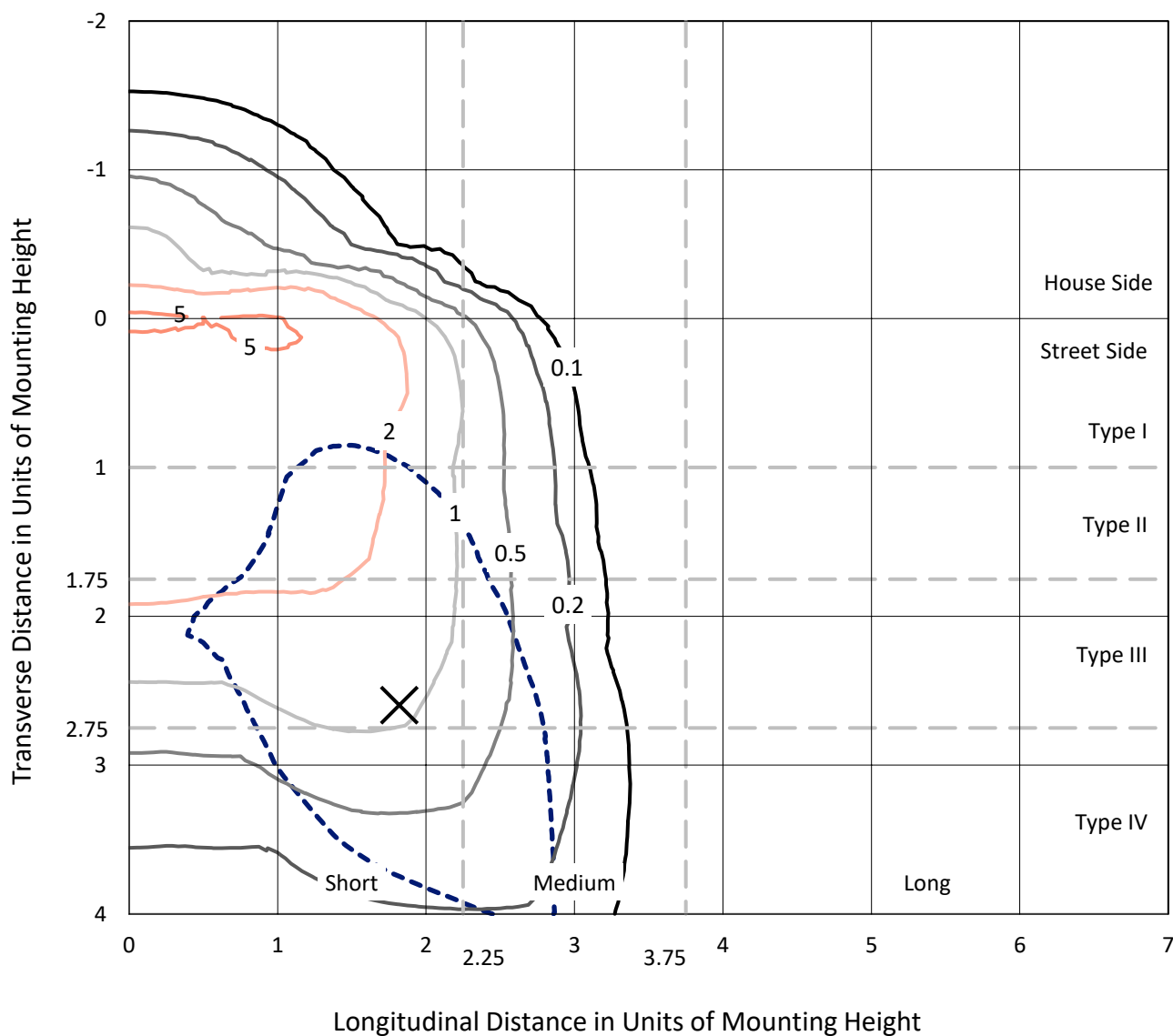
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

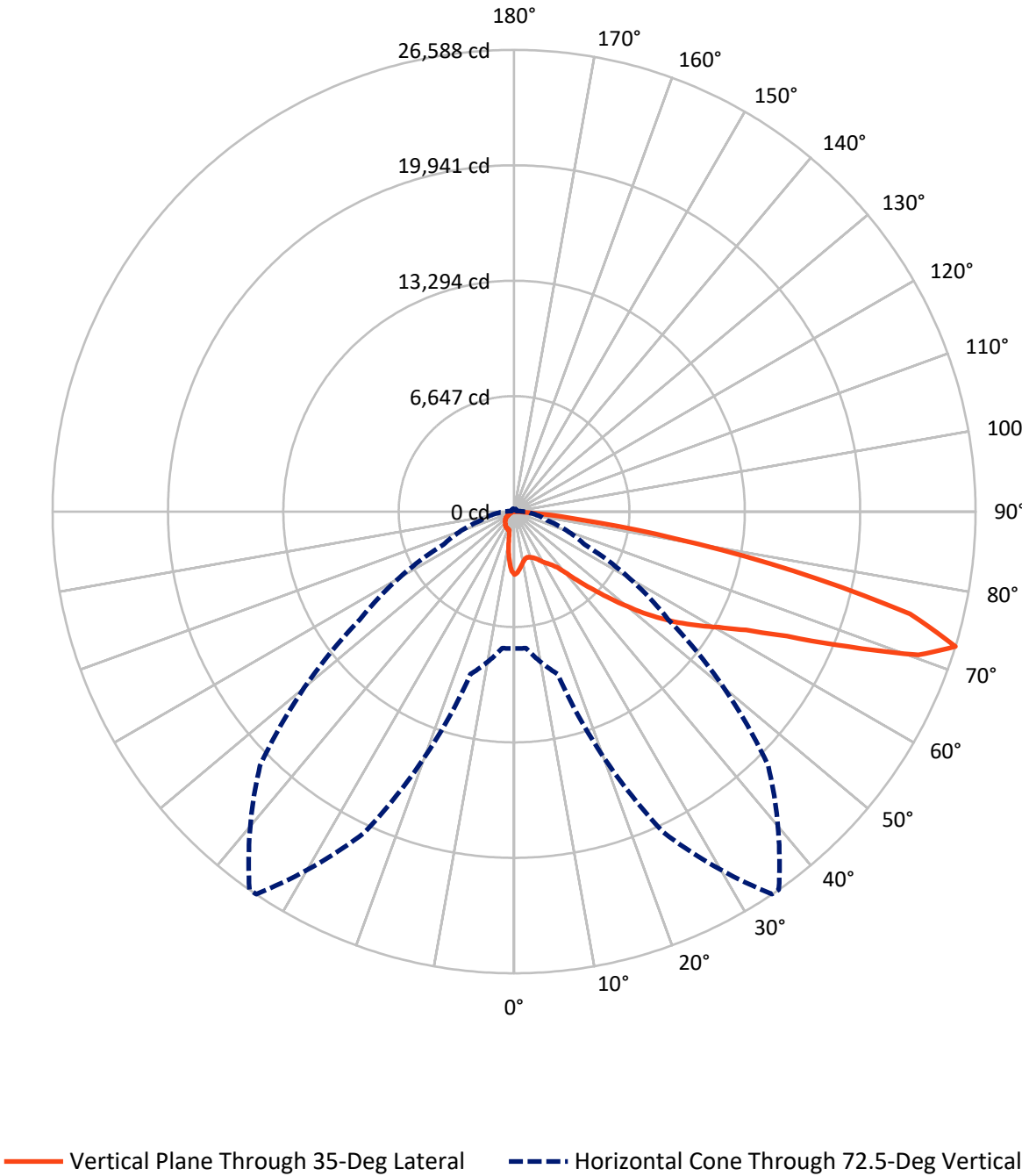


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc

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	2821.3	0.0	2821.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	22247.1	0.0	22247.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	25068.4	0.0	25068.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.6	1.2
10°-20°	698.4	2.8
20°-30°	1134.6	4.5
30°-40°	1893.1	7.6
40°-50°	3581.7	14.3
50°-60°	5691.3	22.7
60°-70°	7040.6	28.1
70°-80°	4376.5	17.5
80°-90°	353.7	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°	25068.4	100.0
0°-180°	25068.4	100.0

Coefficient of Utilization



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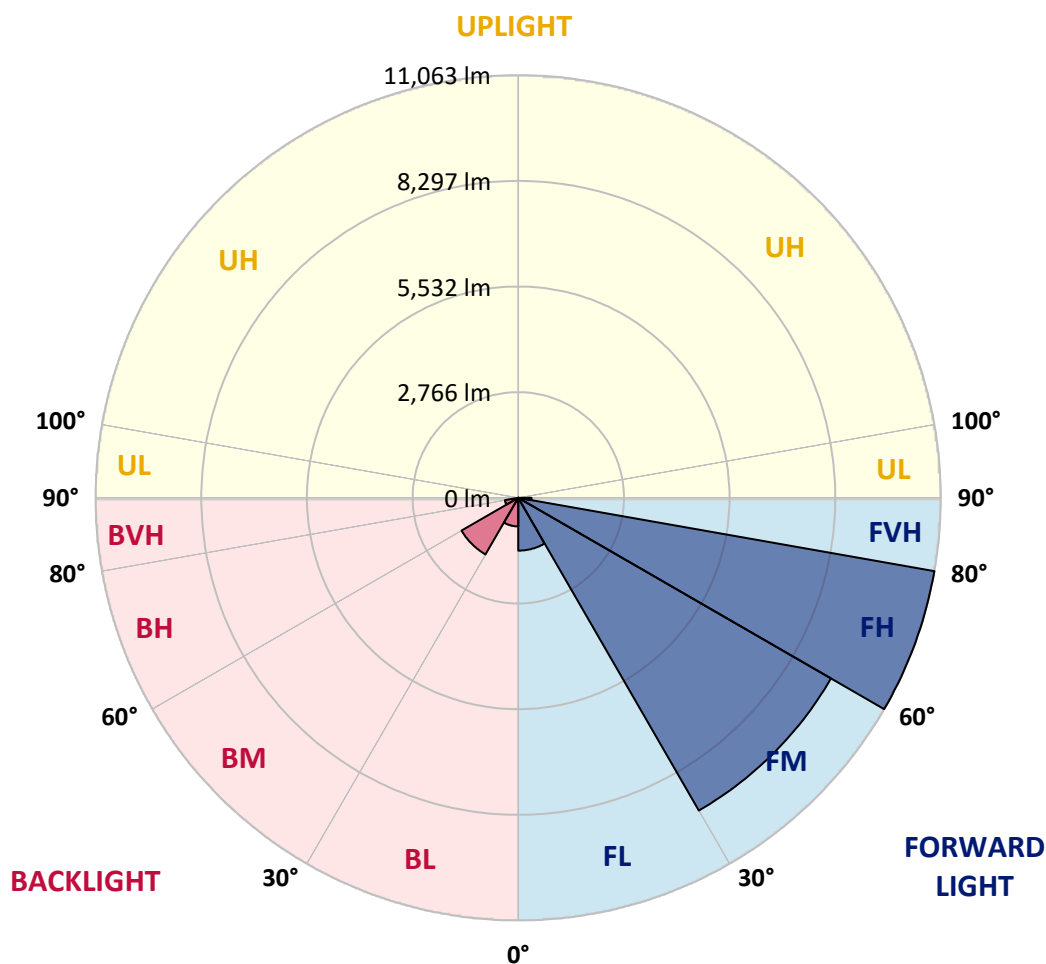
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1381.9	5.5			
FM	(30°-60°)	9453.3	37.7			
FH	(60°-80°)	11063.0	44.1			G4/12000
FVH	(80°-90°)	348.9	1.4			G3/500
BL	(0°-30°)	749.7	3.0	B2/1000		
BM	(30°-60°)	1712.8	6.8	B2/2500		
BH	(60°-80°)	354.0	1.4	B1/500		G1/500
BVH	(80°-90°)	4.8	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°	34°	35°	45°	55°	65°	75°	85°
0°	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2
2.5°	3471.6	3501.0	3506.5	3515.6	3515.6	3526.7	3545.1	3570.8	3613.0	3635.1	3649.8
5°	3199.7	3221.8	3249.4	3271.4	3313.6	3319.2	3390.8	3460.6	3558.0	3631.4	3682.8
7.5°	2926.1	2951.8	2988.5	3041.8	3096.9	3113.4	3221.8	3339.3	3493.6	3631.4	3717.8
10°	2733.2	2735.0	2768.1	2821.4	2909.6	2929.8	3062.0	3229.2	3422.1	3609.3	3750.8
12.5°	2624.8	2637.7	2652.4	2692.8	2777.3	2790.2	2931.6	3128.1	3350.4	3596.5	3789.4
15°	2624.8	2634.0	2643.2	2663.4	2731.4	2742.4	2867.3	3063.8	3313.6	3602.1	3851.8
17.5°	2652.4	2667.0	2659.8	2683.7	2755.2	2762.6	2872.8	3045.5	3311.8	3636.9	3947.4
20°	2718.5	2729.6	2714.8	2729.6	2801.1	2815.9	2929.8	3080.3	3343.0	3697.6	4066.8
22.5°	2823.3	2828.7	2793.8	2804.8	2878.3	2896.6	3029.0	3179.5	3418.4	3794.9	4226.6
25°	2955.5	2966.5	2913.3	2926.1	2995.9	3017.9	3170.3	3328.4	3537.8	3929.0	4430.5
27.5°	3107.9	3113.4	3067.5	3065.7	3155.7	3186.9	3341.2	3512.1	3697.6	4098.0	4687.6
30°	3282.5	3299.0	3254.9	3247.5	3361.4	3387.1	3539.5	3738.0	3932.6	4351.4	5053.1
32.5°	3420.2	3433.0	3407.3	3425.7	3541.4	3561.7	3780.2	4057.6	4301.8	4711.5	5550.9
35°	3618.6	3625.9	3567.1	3600.2	3732.4	3783.9	4109.0	4505.8	4766.6	5163.3	6201.1
37.5°	4336.8	4336.8	4087.0	3923.5	4050.2	4096.1	4559.0	5069.6	5339.6	5769.5	7020.3
40°	5330.5	5313.9	4948.4	4614.1	4597.6	4687.6	5200.0	5780.5	6079.9	6496.9	7942.4
42.5°	6390.4	6364.6	5866.9	5536.2	5481.1	5512.3	5940.3	6656.7	6961.6	7384.1	8934.3
45°	7330.8	7323.4	6867.9	6423.4	6324.2	6423.4	6864.2	7681.7	7900.2	8344.7	9924.4
47.5°	8118.8	8118.8	7786.3	7496.1	7444.7	7503.5	8115.1	8818.6	8798.4	9367.9	10888.8
50°	9026.2	9018.9	8702.9	8578.0	8631.3	8713.9	9555.3	10016.3	9727.9	10372.6	11750.2
52.5°	9661.8	9705.8	9597.5	9577.3	9849.1	9992.4	11017.3	11188.2	10560.0	11325.9	12394.9
55°	10165.0	10216.5	10341.3	10482.8	11006.3	11193.6	12433.6	12299.4	11256.1	12152.5	12766.0
57.5°	10877.7	10804.2	10997.1	11276.3	12123.1	12349.0	13805.6	13348.3	11816.3	12823.0	12806.3
60°	11742.9	11753.9	11787.0	12139.6	13238.1	13528.3	15157.5	14340.2	12176.4	13234.4	12358.2
62.5°	12782.6	12799.1	12867.0	13408.8	14735.1	15008.8	16597.6	15152.1	12341.7	13118.7	11201.0
65°	12710.9	12780.7	13539.3	15392.6	17010.9	17280.9	18278.3	15721.4	12091.8	12060.7	9119.8
67.5°	11579.4	11693.3	12962.6	17762.1	20442.1	20743.3	20309.9	15833.5	11013.6	9378.9	5949.5
70°	10095.2	10135.6	11662.0	19892.9	24415.2	24720.1	22128.3	14601.0	8357.5	5231.3	2665.2
72.5°	7883.7	7892.9	9683.8	20387.0	26571.6	26588.2	20701.1	10839.2	4494.7	2009.5	925.8
75°	5631.8	5576.6	6485.9	16533.4	23377.4	23564.7	15519.4	5084.3	1717.4	949.7	461.0
77.5°	3019.8	3080.3	3670.0	9805.0	16149.4	16469.1	8467.8	1465.7	874.3	646.6	304.9
80°	933.2	984.5	1504.4	4489.2	9147.4	9340.3	3139.2	652.1	609.9	461.0	200.2
82.5°	293.9	304.9	701.7	1886.4	3796.7	3884.9	909.3	369.2	417.0	304.9	117.6
85°	84.5	86.3	312.2	703.5	938.6	956.9	255.3	143.3	238.8	189.2	60.6
87.5°	9.2	29.4	117.6	117.6	82.6	80.8	27.6	31.3	68.0	23.9	11.1
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°	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2
2.5°	3640.6	3642.4	3618.6	3578.2	3534.1	3497.3	3451.4	3414.7	3389.0	3381.6	3394.5
5°	3666.3	3653.5	3585.4	3462.4	3315.5	3188.8	3047.3	2935.3	2861.8	2830.5	2841.6
7.5°	3704.9	3668.2	3519.3	3276.9	2995.9	2746.1	2492.6	2296.0	2171.2	2108.7	2117.9
10°	3738.0	3664.5	3409.2	3008.7	2578.9	2200.6	1858.8	1622.0	1489.6	1427.2	1429.1
12.5°	3769.1	3662.6	3265.9	2690.9	2108.7	1645.8	1328.0	1210.4	1173.7	1160.9	1157.2
15°	3828.0	3668.2	3085.9	2327.3	1640.3	1243.5	1127.8	1126.0	1133.3	1129.7	1127.8
17.5°	3908.7	3673.7	2882.0	1941.6	1265.6	1096.5	1091.1	1107.6	1118.6	1113.1	1111.3
20°	4013.5	3695.7	2665.2	1559.4	1087.4	1059.8	1072.7	1087.4	1096.5	1087.4	1085.6
22.5°	4160.5	3734.3	2428.3	1252.8	1030.4	1037.8	1048.9	1065.4	1074.5	1061.7	1059.8
25°	4340.5	3794.9	2195.0	1089.3	1002.9	1012.1	1028.6	1047.0	1058.0	1045.2	1043.3
27.5°	4573.8	3892.2	1980.1	1052.5	975.4	980.8	1004.7	1032.3	1047.0	1030.4	1030.4
30°	4911.7	4052.0	1794.6	1069.1	958.8	946.0	979.1	1017.6	1034.1	1019.5	1017.6
32.5°	5359.8	4277.9	1680.7	1094.8	951.5	905.6	936.7	986.4	1013.9	1004.7	1004.7
35°	5947.7	4621.5	1636.6	1124.1	946.0	863.4	885.4	938.6	986.4	995.6	995.6
37.5°	6660.3	5099.1	1649.4	1137.0	929.5	828.4	839.5	885.4	947.8	977.2	984.5
40°	7470.4	5655.6	1722.9	1124.1	911.0	799.0	800.8	835.8	890.8	934.9	949.7
42.5°	8306.2	6305.8	1858.8	1076.4	894.5	773.3	767.8	791.7	828.4	859.7	872.5
45°	9101.5	6974.4	1993.0	1010.2	874.3	747.6	734.7	743.9	751.2	764.1	771.5
47.5°	9795.8	7444.7	1954.4	949.7	846.8	718.2	696.2	692.5	670.5	668.6	666.8
50°	10275.2	7547.6	1735.8	889.0	806.4	685.1	650.3	628.2	589.6	571.2	573.1
52.5°	10427.7	7141.6	1418.0	828.4	740.3	641.0	591.4	556.6	508.8	492.3	490.5
55°	10225.6	6346.3	1133.3	754.9	648.4	582.3	527.2	481.2	442.7	422.5	422.5
57.5°	9731.6	5334.2	896.4	668.6	551.0	516.2	461.0	415.1	382.0	361.8	358.1
60°	8912.3	4235.7	709.0	565.7	470.3	444.5	387.6	358.1	328.8	304.9	299.4
62.5°	7668.7	3023.4	556.6	448.2	393.1	363.7	330.7	308.6	273.7	240.7	235.1
65°	5984.4	1849.7	429.8	328.8	315.9	301.2	281.1	260.9	218.6	185.5	180.0
67.5°	3774.7	876.2	306.8	247.9	249.8	242.4	233.3	216.8	185.5	156.1	152.4
70°	1662.3	424.4	202.0	189.2	185.5	185.5	192.9	187.4	158.0	130.4	124.9
72.5°	565.7	227.8	150.6	143.3	134.1	132.2	161.6	156.1	126.8	101.1	95.5
75°	295.7	152.4	110.2	102.9	80.8	97.4	128.5	121.3	90.0	66.1	60.6
77.5°	192.9	108.3	75.3	66.1	45.9	64.3	95.5	84.5	53.3	33.1	29.4
80°	121.3	71.6	44.1	31.3	22.0	34.8	51.5	36.7	20.2	7.4	5.5
82.5°	64.3	36.7	16.5	11.1	9.2	11.1	12.8	9.2	3.7	0.0	0.0
85°	25.7	12.8	5.5	3.7	1.8	0.0	3.7	1.8	0.0	0.0	0.0
87.5°	9.2	1.8	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)