

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: P961953

Luminaire Tested: **NAV-SB2B-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-740-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12138.1 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.9
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

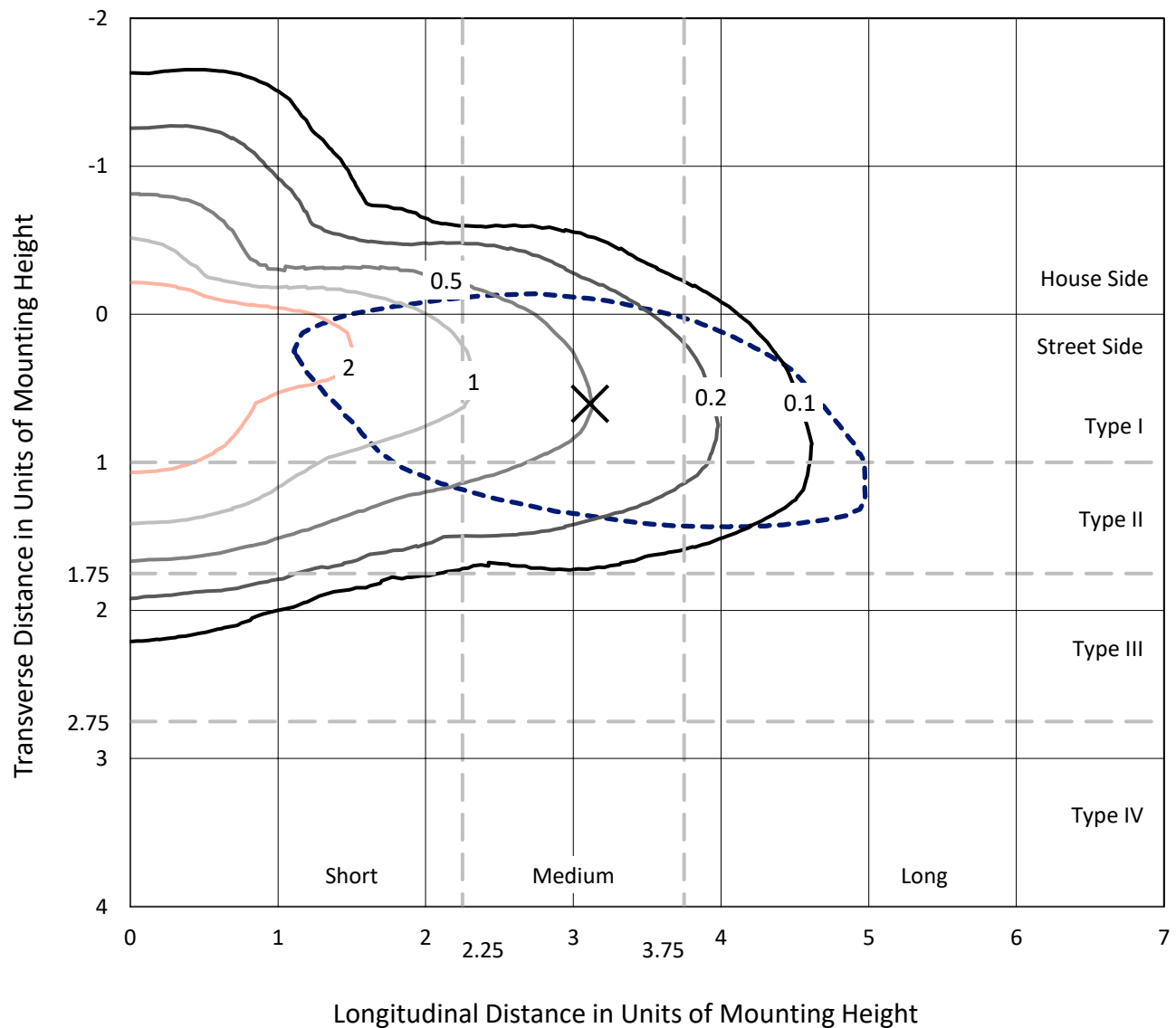


REPORT NUMBER: P961953

CATALOG NUMBER: NAV-SB2B-740-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

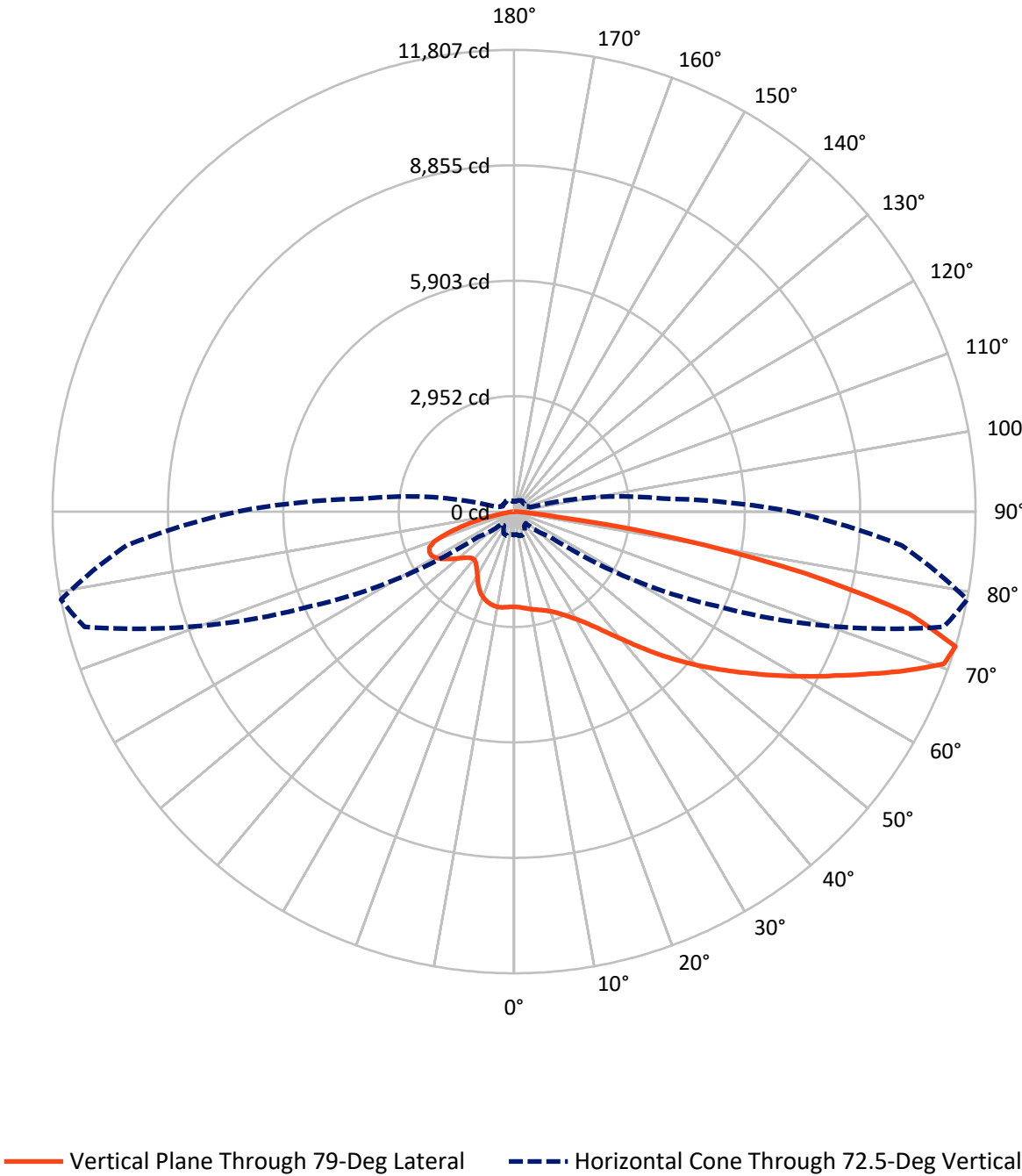
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type II - Medium - N/A

REPORT NUMBER: P961953
CATALOG NUMBER: NAV-SB2B-740-U-SL2

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2671.0	0.0	2671.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	9467.0	0.0	9467.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	12138.1	0.0	12138.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.2	1.8
10°-20°	578.3	4.8
20°-30°	933.1	7.7
30°-40°	1400.4	11.5
40°-50°	1986.6	16.4
50°-60°	2508.8	20.7
60°-70°	2548.0	21.0
70°-80°	1736.6	14.3
80°-90°	225.3	1.9
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°	12138.1	100.0
0°-180°	12138.1	100.0

Coefficient of Utilization



REPORT NUMBER: P961953

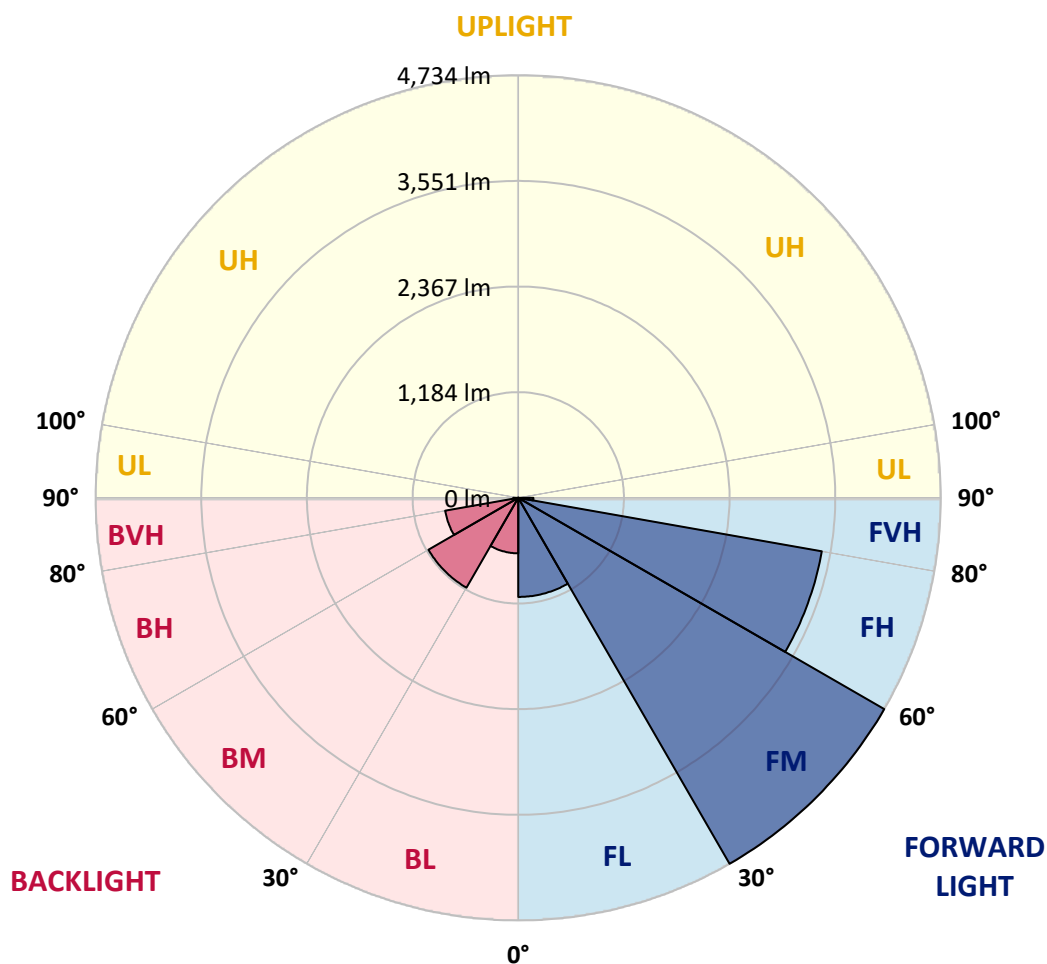
CATALOG NUMBER: NAV-SB2B-740-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1110.3	9.1			
FM	(30°-60°)	4734.1	39.0			
FH	(60°-80°)	3452.9	28.4			G2/5000
FVH	(80°-90°)	169.7	1.4			G2/225
BL	(0°-30°)	622.2	5.1	B2/1000		
BM	(30°-60°)	1161.6	9.6	B2/2500		
BH	(60°-80°)	831.7	6.9	B2/1000		G2/1000
BVH	(80°-90°)	55.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



REPORT NUMBER: P961953

CATALOG NUMBER: NAV-SB2B-740-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2436.6	2436.6	2436.6	2436.6	2436.6	2436.6	2436.6	2436.6	2436.6	2436.6	2436.6
2.5°	2437.9	2426.3	2433.4	2430.8	2434.1	2437.9	2439.2	2441.1	2447.5	2446.9	2446.3
5°	2432.7	2421.2	2430.8	2427.6	2435.9	2444.9	2452.6	2459.7	2469.9	2474.5	2468.1
7.5°	2421.9	2414.1	2423.7	2433.4	2448.8	2462.3	2473.2	2489.2	2504.0	2506.5	2511.0
10°	2358.2	2352.5	2374.9	2400.0	2442.4	2479.0	2502.7	2521.4	2537.4	2540.0	2546.4
12.5°	2292.1	2285.0	2310.1	2344.2	2412.8	2479.0	2529.1	2553.5	2567.6	2575.9	2585.6
15°	2281.2	2275.4	2289.5	2319.1	2376.3	2461.6	2547.0	2592.0	2604.2	2613.9	2617.6
17.5°	2333.8	2323.0	2328.7	2339.0	2372.4	2445.5	2561.2	2635.7	2654.2	2664.5	2664.5
20°	2455.9	2440.4	2431.5	2410.9	2405.2	2448.1	2559.8	2688.3	2712.7	2725.5	2728.8
22.5°	2618.3	2608.0	2588.7	2536.8	2480.3	2479.6	2584.2	2755.7	2801.3	2813.5	2805.7
25°	2814.8	2799.4	2775.0	2704.4	2595.8	2541.9	2625.3	2841.7	2918.2	2921.4	2898.9
27.5°	3040.8	3017.7	2984.3	2891.2	2744.7	2639.5	2688.3	2940.6	3052.3	3051.0	3004.8
30°	3279.0	3255.8	3220.5	3107.6	2923.3	2771.1	2775.6	3047.2	3211.5	3204.5	3125.5
32.5°	3453.0	3435.6	3428.5	3341.3	3128.7	2926.5	2875.7	3165.3	3408.0	3401.6	3291.2
35°	3586.5	3564.0	3572.4	3528.0	3352.8	3100.5	2998.4	3305.9	3646.8	3646.2	3508.8
37.5°	3718.8	3698.9	3706.0	3676.4	3560.2	3321.3	3148.0	3478.0	3942.9	3957.0	3772.1
40°	3839.4	3818.3	3846.5	3818.9	3721.4	3556.3	3318.1	3672.6	4285.7	4312.7	4090.6
42.5°	3912.0	3895.3	3942.3	3942.9	3861.3	3754.8	3505.0	3887.0	4682.5	4742.9	4482.2
45°	3937.1	3931.3	4001.9	4016.7	3985.2	3869.7	3673.2	4120.7	5110.1	5218.0	4928.4
47.5°	3910.1	3899.2	3996.8	4051.4	4076.4	3923.6	3812.5	4373.7	5546.7	5704.6	5415.1
50°	3773.9	3752.8	3897.9	4012.9	4102.0	3959.0	3953.1	4665.8	6043.0	6215.7	5904.3
52.5°	3529.4	3513.3	3678.3	3878.0	4045.6	3976.3	4111.1	4984.9	6514.3	6737.7	6405.7
55°	3216.7	3195.5	3377.2	3637.9	3904.9	3970.4	4269.0	5341.9	7070.3	7297.0	6923.9
57.5°	2721.1	2678.6	2908.5	3216.7	3675.8	3963.4	4433.4	5697.0	7635.3	7907.0	7476.8
60°	1998.0	1935.2	2217.0	2582.4	3227.6	3894.7	4636.9	6095.1	8313.4	8557.9	8080.3
62.5°	1163.4	1126.8	1311.1	1652.0	2432.7	3490.2	4751.2	6558.0	8979.8	9236.6	8673.6
65°	903.3	893.1	909.2	935.5	1354.1	2613.1	4398.7	7009.4	9827.3	10007.1	9291.8
67.5°	826.4	818.7	825.6	776.2	687.0	1455.5	3480.0	7123.6	10735.1	10844.3	9833.0
70°	734.5	725.5	748.7	706.2	540.6	661.9	2248.4	6708.8	11457.4	11662.2	10244.7
72.5°	598.4	588.1	642.1	622.8	455.2	425.1	1129.3	5723.3	11381.7	11806.8	9949.9
75°	459.7	454.0	518.1	534.2	371.2	334.6	541.9	4254.3	10016.1	10444.3	8575.3
77.5°	357.0	352.5	385.2	443.6	299.2	259.4	333.2	2698.5	7548.0	7623.1	5909.4
80°	267.7	254.9	285.1	343.5	233.1	189.4	226.0	1573.7	4771.1	4324.9	2572.0
82.5°	167.6	161.1	186.2	229.2	164.4	130.4	147.0	869.3	1912.0	1126.2	496.3
85°	95.6	93.1	101.5	131.0	89.3	75.1	84.2	384.0	349.3	240.2	149.6
87.5°	38.5	37.2	46.2	58.4	32.7	27.6	29.5	92.5	77.1	71.2	49.4
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: P961953

CATALOG NUMBER: NAV-SB2B-740-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2436.6	2436.6	2436.6	2436.6	2436.6	2436.6	2436.6	2436.6	2436.6	2436.6	2436.6
2.5°	2443.7	2443.7	2434.7	2420.5	2404.4	2394.2	2377.5	2373.1	2355.7	2350.5	2358.9
5°	2473.2	2468.1	2440.4	2400.7	2346.0	2296.0	2240.8	2206.1	2157.3	2140.0	2152.8
7.5°	2510.4	2496.3	2448.8	2361.5	2247.2	2134.9	2018.0	1929.4	1844.6	1814.5	1818.4
10°	2544.5	2524.6	2443.7	2290.9	2093.0	1898.5	1712.4	1582.0	1483.2	1442.7	1451.7
12.5°	2578.5	2541.9	2409.7	2173.3	1874.1	1610.3	1411.8	1310.5	1249.5	1200.7	1216.7
15°	2610.6	2559.2	2357.0	2016.1	1634.1	1366.3	1220.0	1139.0	1090.2	1058.1	1063.8
17.5°	2647.9	2574.0	2278.0	1816.4	1405.5	1197.4	1078.0	1029.2	1019.6	1015.8	1018.3
20°	2699.8	2587.5	2174.0	1593.0	1237.3	1062.6	1000.9	996.5	995.8	993.9	1000.3
22.5°	2755.7	2603.5	2036.6	1390.0	1094.1	978.5	967.6	958.6	952.8	952.1	959.2
25°	2821.8	2608.6	1864.6	1223.7	972.1	938.7	925.9	912.4	908.5	908.5	912.4
27.5°	2886.0	2591.3	1664.2	1079.3	903.3	902.1	885.4	880.9	880.3	882.2	887.3
30°	2950.3	2558.6	1465.1	945.8	863.6	863.6	857.8	861.0	863.6	870.0	874.4
32.5°	3036.9	2524.0	1298.9	846.9	828.9	822.5	828.2	834.7	837.2	845.6	852.7
35°	3164.1	2499.6	1166.7	792.9	792.9	784.6	787.8	786.5	780.7	776.8	785.9
37.5°	3332.3	2498.2	1057.5	767.9	762.8	761.5	762.1	753.8	731.3	704.4	705.0
40°	3534.5	2532.9	973.3	750.6	746.7	754.4	750.6	728.1	666.5	619.6	618.3
42.5°	3806.1	2631.8	919.4	729.4	741.0	750.6	735.1	657.4	615.7	584.2	583.0
45°	4125.8	2792.3	891.9	706.9	730.0	741.6	667.1	633.0	599.7	561.8	559.2
47.5°	4488.0	2994.5	885.4	685.7	705.6	712.7	638.2	622.8	584.9	543.9	540.6
50°	4882.2	3234.1	902.7	660.7	670.3	646.0	628.5	614.5	575.2	534.8	530.3
52.5°	5289.9	3497.9	937.4	626.7	635.0	608.0	624.7	612.5	569.5	515.0	511.1
55°	5690.5	3763.7	970.8	586.8	599.0	574.0	613.8	604.9	543.1	481.5	478.4
57.5°	6097.6	4028.2	1003.6	551.6	564.4	541.3	596.4	584.2	513.6	450.7	449.5
60°	6520.7	4285.1	1019.0	517.5	526.4	511.1	570.1	549.0	480.2	419.2	417.4
62.5°	6916.9	4498.8	993.9	483.5	489.2	482.8	535.5	507.3	446.9	384.0	383.3
65°	7314.3	4626.0	916.9	450.1	451.4	448.1	486.7	462.3	407.7	353.1	349.3
67.5°	7674.5	4697.3	794.3	414.1	410.9	409.6	441.1	413.5	369.8	322.4	318.5
70°	7750.8	4516.3	606.7	371.8	371.8	368.6	391.0	362.7	328.1	289.6	288.3
72.5°	7079.3	3799.1	430.8	323.6	328.7	322.4	340.9	317.1	285.7	260.0	252.4
75°	5708.5	2785.8	313.3	274.2	283.1	272.2	289.6	272.9	245.9	245.3	220.9
77.5°	3922.3	1722.6	227.2	226.0	232.5	218.3	238.2	229.2	204.8	193.9	181.7
80°	1673.8	687.0	165.6	174.7	174.7	161.8	184.9	187.5	166.3	161.1	161.1
82.5°	333.2	195.2	116.2	120.0	113.0	109.2	131.0	145.1	200.3	222.8	223.4
85°	100.1	72.0	70.0	65.5	57.8	58.4	77.1	145.8	179.8	102.7	88.6
87.5°	27.6	17.9	18.7	14.8	12.2	16.1	26.3	110.4	60.4	25.7	21.8
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)