

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: P963536

Luminaire Tested: **NAV-SB3A-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-740-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14263.9 lumens
Efficiency: N/A
Efficacy: 168.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 84.7
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



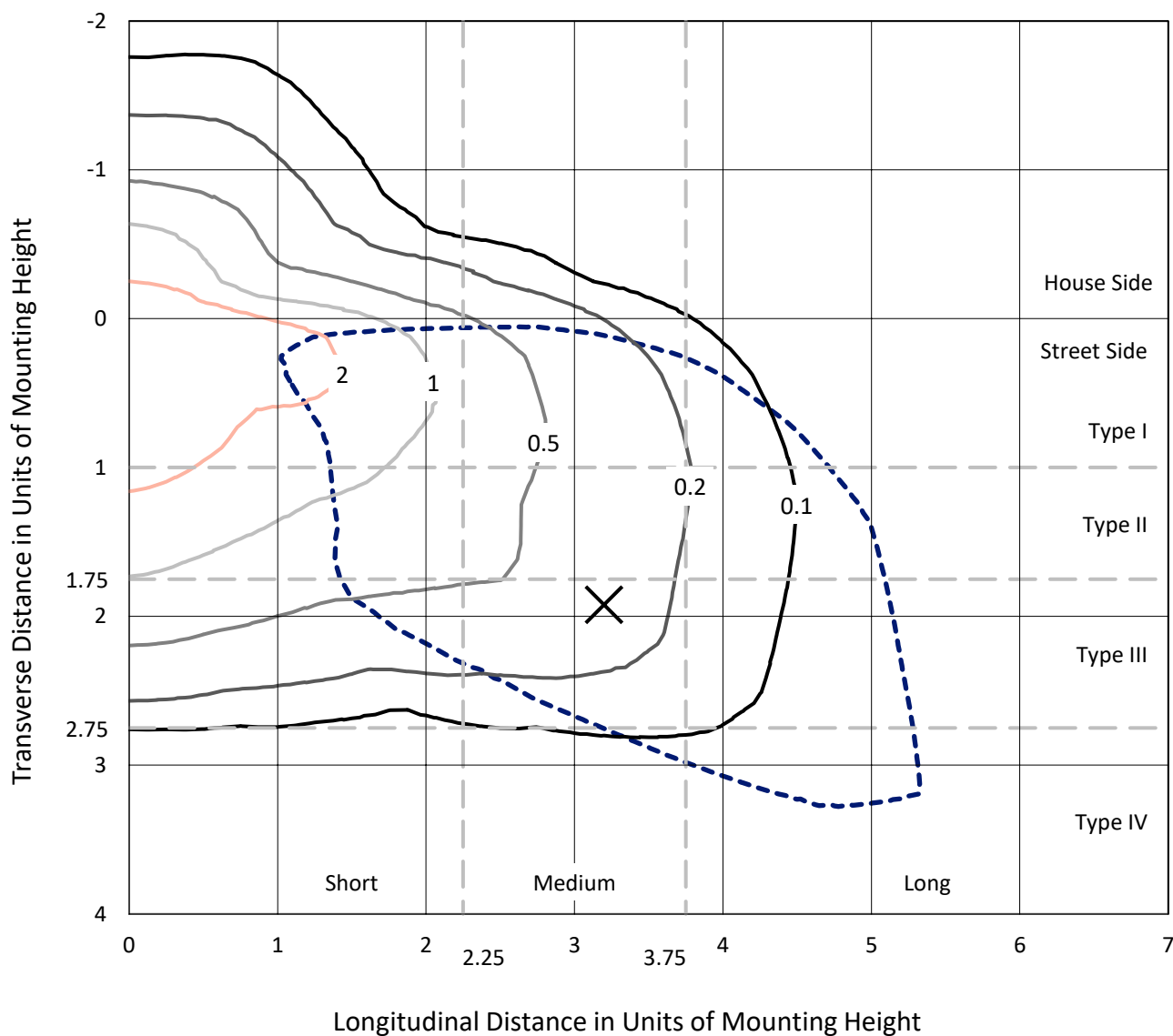
REPORT NUMBER: P963536

CATALOG NUMBER: NAV-SB3A-740-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

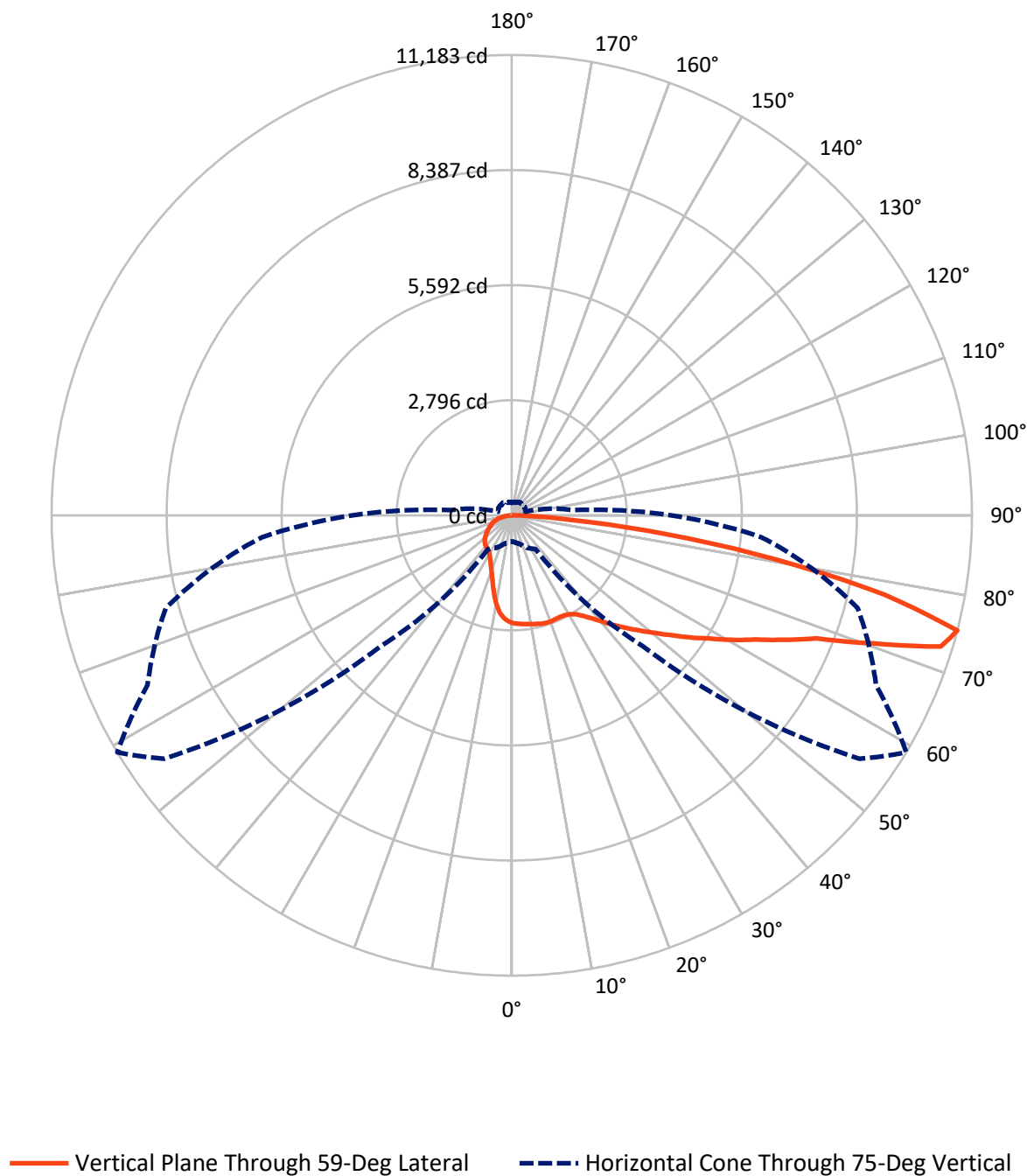


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type IV - Medium - N/A

REPORT NUMBER: P963536

CATALOG NUMBER: NAV-SB3A-740-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P963536

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2675.3	0.0	2675.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11588.6	0.0	11588.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	14263.9	0.0	14263.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.8	1.6
10°-20°	600.0	4.2
20°-30°	911.4	6.4
30°-40°	1354.8	9.5
40°-50°	2014.9	14.1
50°-60°	2734.9	19.2
60°-70°	3338.9	23.4
70°-80°	2620.3	18.4
80°-90°	453.9	3.2
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°	14263.9	100.0
0°-180°	14263.9	100.0

Coefficient of Utilization



REPORT NUMBER: P963536

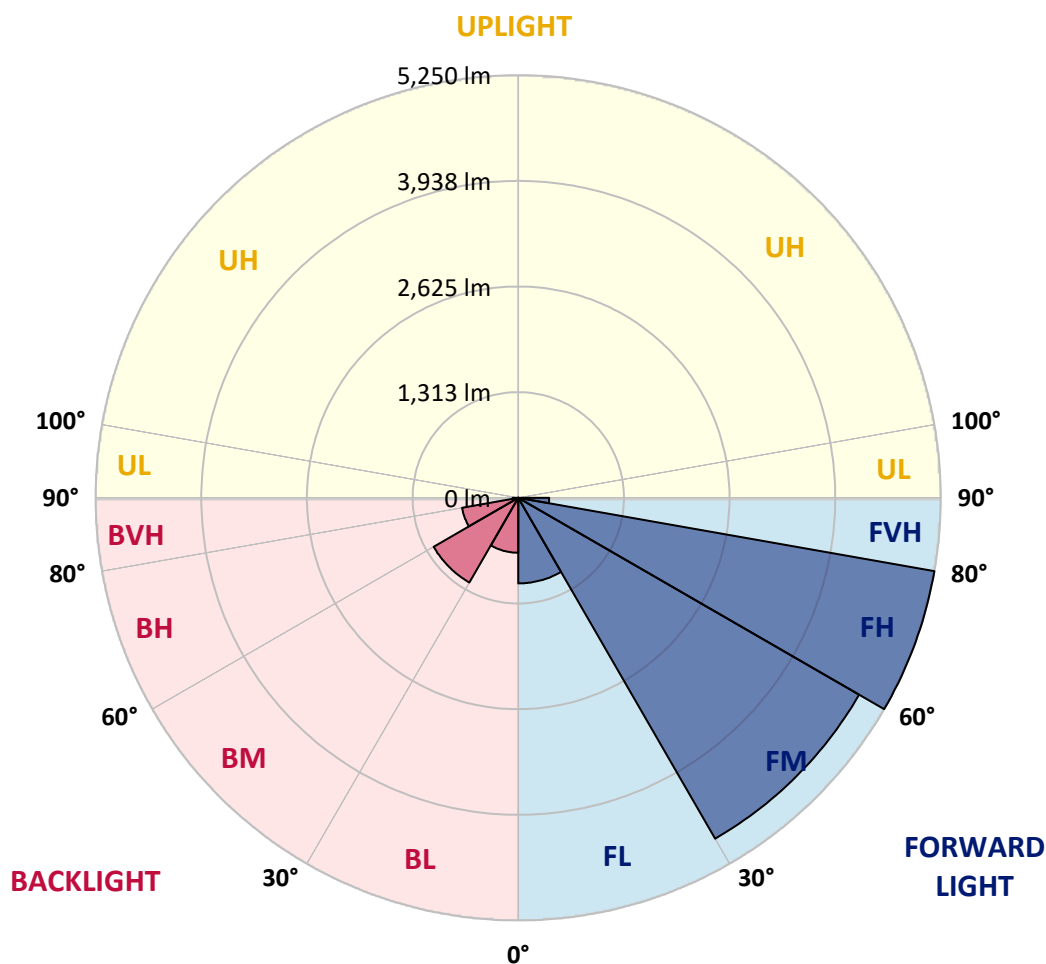
CATALOG NUMBER: NAV-SB3A-740-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1063.5	7.5			
FM	(30°-60°)	4890.3	34.3			
FH	(60°-80°)	5250.4	36.8			G3/7500
FVH	(80°-90°)	384.4	2.7			G3/500
BL	(0°-30°)	682.7	4.8	B2/1000		
BM	(30°-60°)	1214.3	8.5	B2/2500		
BH	(60°-80°)	708.8	5.0	B2/1000		G2/1000
BVH	(80°-90°)	69.5	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-G3

Type IV Medium



REPORT NUMBER: P963536

CATALOG NUMBER: NAV-SB3A-740-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2
2.5°	2640.4	2631.2	2640.4	2636.5	2635.0	2631.9	2632.7	2638.0	2635.0	2638.9	2625.7
5°	2622.7	2617.3	2626.6	2624.2	2634.2	2635.8	2645.7	2651.9	2655.7	2656.5	2646.4
7.5°	2593.6	2588.2	2601.2	2612.0	2633.4	2639.6	2660.3	2670.3	2675.7	2684.9	2670.3
10°	2486.9	2484.6	2516.8	2557.5	2608.1	2639.6	2671.0	2688.0	2696.4	2721.0	2704.1
12.5°	2298.2	2301.2	2343.4	2421.7	2522.9	2624.2	2683.3	2707.8	2721.0	2751.6	2743.9
15°	2117.9	2117.0	2163.1	2246.7	2388.7	2556.8	2689.5	2731.6	2754.0	2799.2	2793.0
17.5°	2013.4	2010.4	2042.6	2106.3	2238.3	2453.1	2674.1	2744.7	2792.3	2849.1	2843.7
20°	1994.2	1988.1	2005.0	2036.5	2130.1	2339.6	2634.2	2744.7	2823.0	2896.6	2893.6
22.5°	2064.1	2054.1	2047.2	2043.3	2084.8	2246.0	2588.9	2735.5	2868.3	2964.9	2959.6
25°	2204.6	2189.2	2153.8	2119.4	2107.1	2203.8	2549.1	2733.2	2935.8	3057.1	3037.1
27.5°	2431.6	2412.4	2341.1	2258.3	2183.8	2225.3	2531.4	2747.0	3010.2	3154.4	3114.6
30°	2713.3	2692.6	2602.8	2475.4	2341.9	2305.0	2553.7	2787.7	3105.3	3284.1	3205.9
32.5°	2965.7	2942.7	2866.0	2736.2	2555.9	2443.2	2624.2	2865.2	3255.0	3464.5	3343.2
35°	3189.8	3162.9	3093.9	2974.1	2818.3	2637.3	2751.6	3002.5	3467.6	3757.5	3529.7
37.5°	3409.3	3377.8	3302.6	3176.0	3067.0	2895.8	2927.3	3179.0	3749.9	4113.6	3776.7
40°	3654.7	3609.5	3518.2	3393.1	3287.2	3198.9	3158.3	3395.4	4036.9	4511.1	4085.2
42.5°	3892.6	3849.7	3740.7	3634.0	3501.3	3476.0	3426.1	3648.6	4350.7	4947.7	4398.3
45°	4148.9	4097.5	3965.5	3830.5	3746.9	3660.2	3685.5	3901.9	4658.4	5392.7	4726.7
47.5°	4389.0	4331.5	4175.7	4025.4	3979.4	3815.2	3923.3	4180.4	4978.4	5843.9	5052.0
50°	4518.8	4462.0	4332.3	4196.5	4160.5	4006.2	4181.2	4486.5	5313.7	6293.6	5364.3
52.5°	4627.0	4565.6	4396.0	4320.8	4310.0	4214.2	4498.8	4836.5	5649.1	6691.1	5665.9
55°	4742.1	4673.8	4457.4	4389.9	4439.0	4447.4	4875.6	5233.1	6003.5	7078.5	5950.6
57.5°	4874.8	4788.1	4516.5	4448.2	4564.8	4720.5	5308.4	5644.5	6351.9	7437.7	6203.8
60°	4999.8	4912.4	4630.0	4541.1	4700.6	5037.5	5804.8	6142.4	6746.3	7757.6	6443.3
62.5°	5024.4	4952.3	4720.5	4719.8	4884.7	5407.3	6392.6	6645.0	7090.8	8073.8	6658.1
65°	4599.4	4554.1	4416.7	4713.0	5148.8	5939.9	7047.1	7288.1	7528.9	8350.1	6846.8
67.5°	3500.6	3506.6	3496.7	4068.3	4935.4	6704.8	7994.7	7976.3	8069.9	8660.0	7064.0
70°	1600.6	1636.7	1871.5	2808.4	3954.0	6793.1	9561.6	9323.0	8749.0	9061.3	7252.0
72.5°	864.8	892.4	988.3	1360.5	2377.2	6039.6	10732.6	10902.1	9652.1	9331.4	7045.5
75°	634.6	650.0	716.7	864.8	998.2	4488.9	10312.8	11183.0	9765.0	8701.4	6084.1
77.5°	475.0	481.9	536.4	685.2	511.1	2366.4	8240.3	9261.6	8359.2	7149.2	4494.2
80°	344.5	352.2	392.9	514.1	358.3	865.5	5658.2	6500.8	5725.0	4557.2	2239.8
82.5°	237.9	241.0	258.6	349.9	250.1	336.1	3210.5	3812.1	3196.0	1599.1	604.6
85°	143.5	147.3	155.0	204.1	142.0	159.6	1385.8	1433.4	955.3	382.1	188.0
87.5°	59.0	62.9	69.1	85.9	56.0	44.5	228.7	287.0	178.8	112.0	58.3
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: P963536

CATALOG NUMBER: NAV-SB3A-740-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2
2.5°	2622.0	2616.6	2602.0	2582.1	2563.6	2540.6	2530.6	2522.2	2514.5	2500.0	2493.0
5°	2638.0	2623.5	2584.3	2533.7	2476.2	2413.3	2351.9	2309.6	2273.6	2246.7	2224.5
7.5°	2662.6	2635.0	2563.6	2460.0	2328.1	2193.0	2071.0	1984.3	1919.1	1895.3	1853.8
10°	2688.0	2655.0	2530.6	2348.0	2120.1	1912.1	1750.3	1661.2	1609.0	1592.2	1566.1
12.5°	2717.9	2669.5	2479.3	2192.3	1887.6	1659.7	1518.5	1466.4	1439.5	1430.3	1432.6
15°	2761.6	2681.8	2401.7	1997.3	1665.8	1475.6	1384.3	1348.2	1334.3	1333.6	1336.7
17.5°	2794.6	2684.1	2281.2	1788.6	1495.5	1364.3	1289.1	1275.3	1284.5	1298.3	1303.7
20°	2831.5	2663.4	2123.2	1598.4	1375.9	1266.9	1235.4	1244.6	1266.9	1286.8	1293.8
22.5°	2857.5	2625.7	1932.1	1450.3	1272.2	1210.8	1209.3	1228.5	1240.8	1250.7	1256.1
25°	2880.6	2562.1	1729.6	1325.9	1187.1	1177.1	1193.9	1187.8	1179.4	1187.8	1193.2
27.5°	2897.4	2461.5	1548.5	1217.0	1127.2	1154.0	1144.1	1130.3	1129.6	1134.1	1141.7
30°	2892.0	2327.3	1399.6	1113.4	1085.0	1111.1	1087.3	1085.0	1082.7	1085.0	1093.5
32.5°	2892.0	2174.6	1285.2	1042.0	1058.1	1048.2	1045.9	1040.5	1031.3	1030.5	1040.5
35°	2908.1	2021.9	1187.1	1003.7	1035.9	1012.1	1013.6	1000.6	981.4	972.2	981.4
37.5°	2941.1	1899.1	1089.6	985.2	996.7	996.0	989.8	967.6	933.9	904.7	914.6
40°	3021.0	1863.0	1022.8	976.8	978.4	987.6	971.4	928.4	851.8	804.1	810.3
42.5°	3146.0	1923.7	1008.3	956.1	966.1	975.3	943.8	844.1	789.6	761.2	761.2
45°	3304.9	2029.6	1039.8	926.2	937.0	953.0	859.4	811.8	787.3	788.0	791.9
47.5°	3505.9	2140.8	1098.1	900.1	894.7	903.9	803.4	774.2	740.5	748.9	770.4
50°	3738.4	2253.7	1153.3	864.8	847.9	817.9	767.3	739.7	696.7	676.8	682.1
52.5°	3990.1	2362.6	1175.6	821.8	797.2	762.7	742.8	709.0	656.8	623.8	623.1
55°	4228.7	2461.5	1151.0	770.4	746.6	719.8	716.7	696.0	639.9	593.9	593.9
57.5°	4454.3	2544.5	1089.6	718.2	695.2	679.1	699.8	689.8	619.2	560.2	557.1
60°	4645.4	2601.2	1000.6	665.2	649.1	640.7	672.2	669.1	590.1	524.1	521.8
62.5°	4797.3	2623.5	902.4	614.6	610.8	595.4	633.9	633.9	553.2	488.8	486.5
65°	4916.2	2602.0	802.6	564.8	572.5	549.4	587.0	582.4	514.1	457.4	454.3
67.5°	5021.4	2531.4	692.1	515.7	533.3	504.1	537.9	527.2	471.1	425.9	422.8
70°	5068.2	2367.2	566.3	466.6	488.0	459.6	488.8	468.8	422.8	392.1	385.9
72.5°	4692.1	1967.4	445.8	415.1	433.6	410.5	435.8	412.9	370.6	356.8	345.3
75°	3881.9	1476.3	343.0	359.1	372.9	355.3	372.2	355.3	316.9	326.9	298.5
77.5°	2819.2	996.7	262.4	300.0	306.2	296.9	311.5	292.3	257.8	255.5	244.1
80°	1401.9	583.9	205.6	237.1	234.8	228.7	245.6	236.4	207.2	219.5	217.2
82.5°	405.9	250.1	149.6	166.5	162.0	163.5	175.7	180.3	270.1	267.8	274.0
85°	127.4	98.2	89.8	92.9	88.3	90.5	103.6	205.6	190.3	111.2	120.4
87.5°	33.0	33.7	22.2	23.8	24.6	29.1	33.0	125.0	59.9	39.2	41.4
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)