

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: P883317

Luminaire Tested: **NAV-SB3C-835-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-835-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18780 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

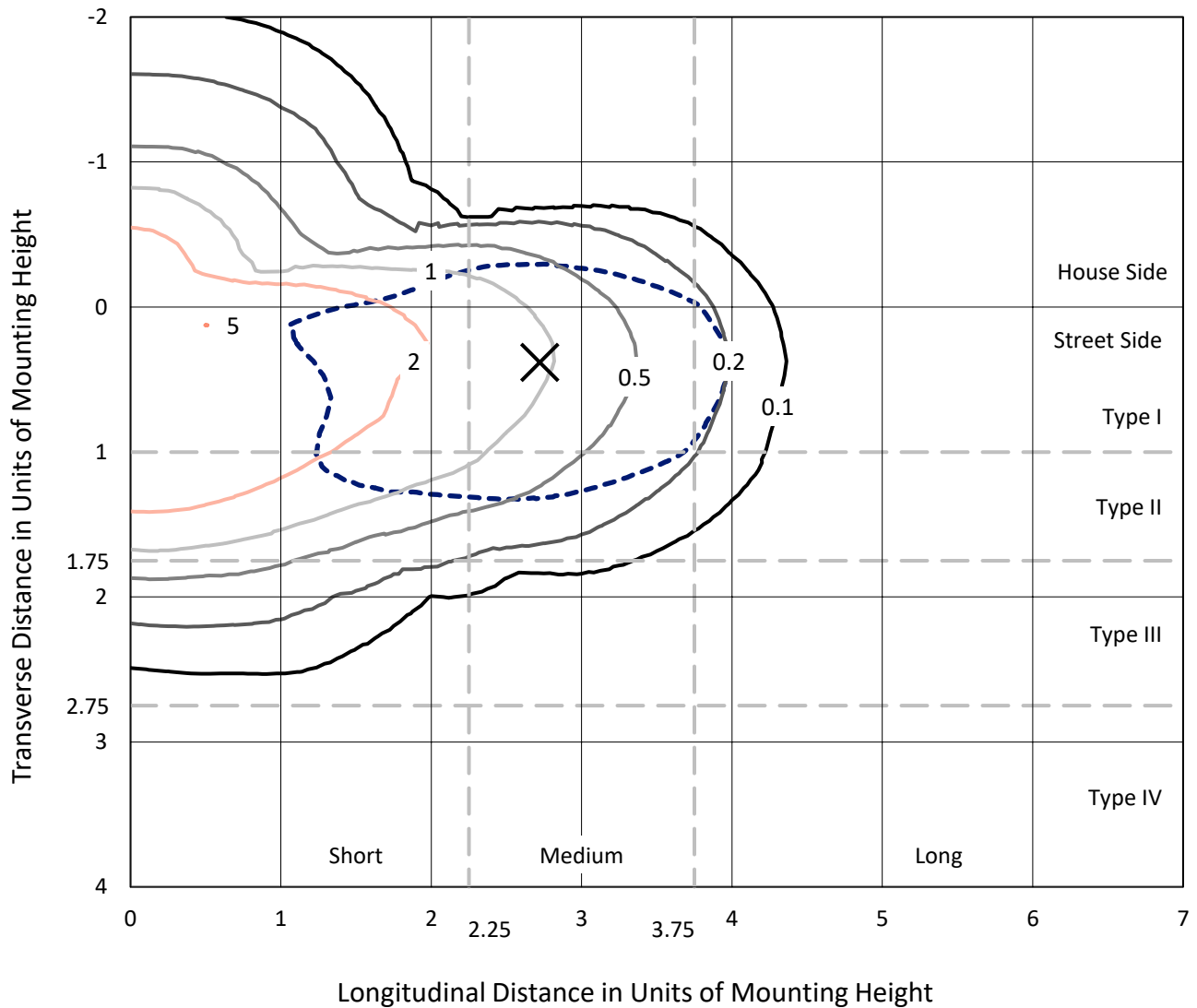
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

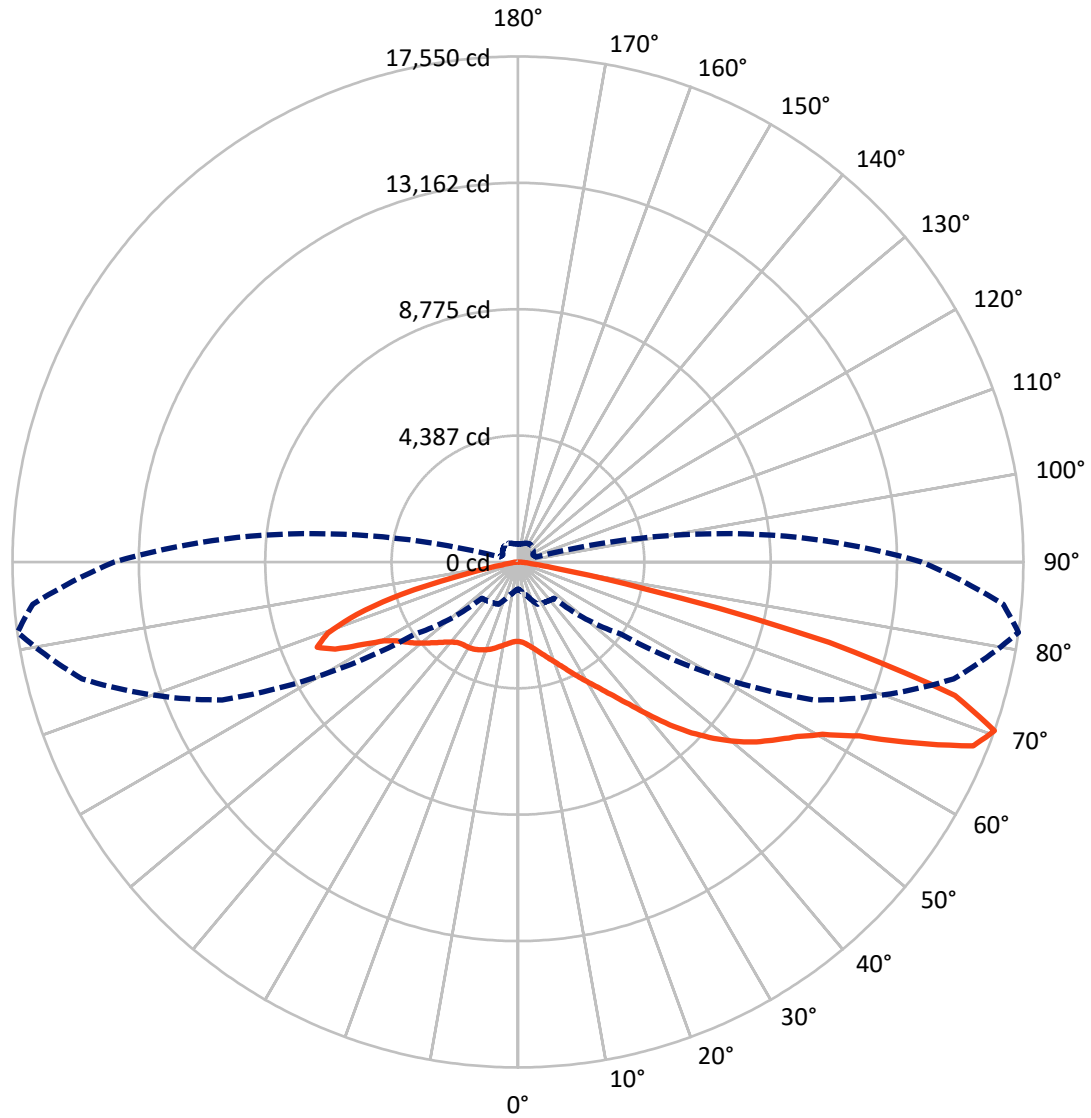
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4629.7	0.0	4629.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	14150.3	0.0	14150.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	18780.0	0.0	18780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.0	1.4
10°-20°	746.9	4.0
20°-30°	1249.5	6.7
30°-40°	1952.0	10.4
40°-50°	3108.8	16.6
50°-60°	4326.3	23.0
60°-70°	4525.5	24.1
70°-80°	2365.3	12.6
80°-90°	245.6	1.3
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°	18780.0	100.0
0°-180°	18780.0	100.0

Coefficient of Utilization



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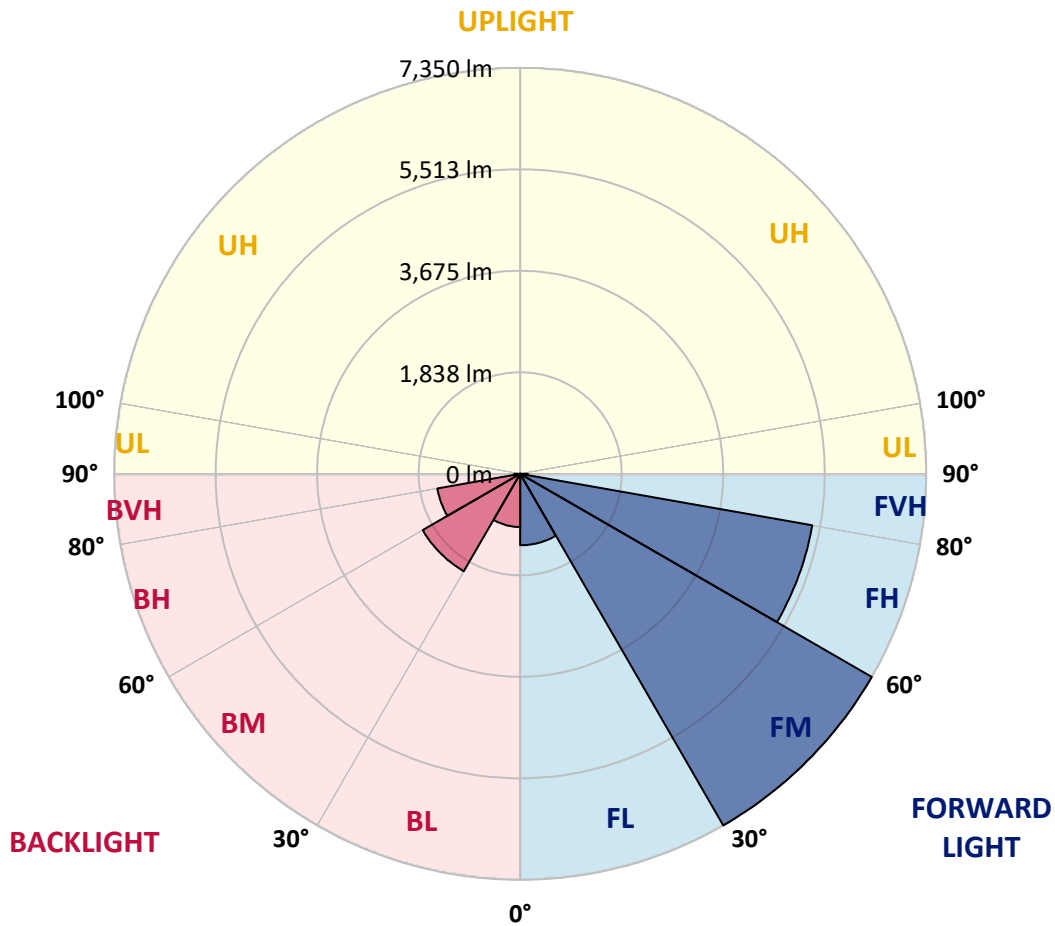
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1293.2	6.9			
FM (30°-60°)	7350.3	39.1			
FH (60°-80°)	5369.3	28.6			G3/7500
FVH (80°-90°)	137.5	0.7			G2/225
BL (0°-30°)	963.2	5.1	B2/1000		
BM (30°-60°)	2036.9	10.8	B2/2500		
BH (60°-80°)	1521.6	8.1	B3/2500		G3/2500
BVH (80°-90°)	108.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4
2.5°	2819.2	2835.1	2830.1	2825.1	2825.1	2818.2	2817.2	2807.2	2799.2	2786.3	2783.3
5°	2855.0	2872.0	2870.0	2874.0	2886.9	2889.9	2892.9	2886.9	2871.0	2855.0	2848.1
7.5°	2823.1	2842.1	2848.1	2872.0	2911.8	2947.7	2974.6	2985.6	2970.6	2947.7	2936.7
10°	2715.5	2736.4	2757.4	2814.2	2884.9	2969.6	3041.4	3084.2	3081.2	3059.3	3040.4
12.5°	2497.3	2519.2	2564.0	2674.7	2804.2	2953.7	3087.2	3176.9	3207.8	3191.9	3159.0
15°	2322.9	2341.8	2375.7	2489.3	2657.7	2884.9	3104.2	3278.5	3357.3	3348.3	3308.4
17.5°	2317.9	2325.9	2346.8	2400.6	2530.2	2777.3	3086.2	3378.2	3528.7	3527.7	3477.9
20°	2405.6	2408.6	2420.5	2431.5	2505.2	2695.6	3040.4	3460.9	3721.0	3721.0	3667.2
22.5°	2527.2	2525.2	2537.1	2527.2	2563.0	2688.6	3011.5	3533.7	3935.3	3951.2	3883.4
25°	2709.5	2699.6	2696.6	2673.7	2680.6	2753.4	3043.4	3616.4	4189.4	4222.3	4137.5
27.5°	2952.7	2936.7	2925.8	2873.0	2855.0	2886.9	3141.0	3716.0	4472.4	4529.2	4421.6
30°	3269.6	3240.7	3224.7	3133.1	3068.3	3073.3	3288.5	3848.6	4768.3	4860.0	4723.5
32.5°	3702.1	3657.2	3614.4	3463.9	3345.3	3306.5	3478.8	4031.9	5089.2	5235.7	5060.3
35°	4186.4	4150.5	4104.7	3872.5	3690.1	3600.4	3736.0	4288.0	5464.9	5697.1	5468.9
37.5°	4652.7	4621.9	4643.8	4330.9	4095.7	3965.2	4072.8	4631.8	5928.3	6271.1	5981.1
40°	5135.1	5111.1	5114.1	4815.2	4541.1	4394.7	4481.3	5063.3	6459.4	6953.7	6597.0
42.5°	5659.2	5641.3	5581.5	5316.4	5008.5	4872.0	4951.7	5561.6	7029.4	7731.0	7272.6
45°	6246.2	6235.2	6179.4	5875.5	5522.7	5369.2	5476.9	6111.7	7602.4	8462.4	7951.2
47.5°	6753.4	6762.4	6755.4	6499.3	6133.6	5908.4	6036.9	6685.6	8135.6	9150.0	8602.0
50°	6997.6	7044.4	7113.2	7033.4	6806.2	6577.0	6601.9	7239.7	8643.8	9794.8	9225.8
52.5°	6870.0	6958.7	7146.0	7273.6	7361.3	7313.5	7246.7	7789.8	9122.1	10376.8	9815.7
55°	6394.7	6519.2	6830.1	7138.1	7585.5	7933.3	8021.0	8399.7	9588.5	10889.0	10373.8
57.5°	5528.7	5731.0	6010.0	6632.8	7386.2	8233.2	8923.8	9245.7	10082.8	11436.1	10957.7
60°	4043.9	4314.9	4661.7	5588.5	6688.6	8072.8	9692.1	10545.2	10785.3	12144.6	11718.1
62.5°	2588.0	2755.4	3074.3	3947.2	5211.8	7250.7	9927.3	12169.5	11976.2	13306.5	12858.1
65°	1771.8	1879.4	2171.4	2661.7	3369.2	5397.1	9297.5	13387.2	13867.6	15148.1	14807.3
67.5°	1287.5	1369.2	1618.3	2047.8	2195.3	3193.8	7214.8	13331.4	15706.1	17045.5	16515.3
70°	938.7	996.5	1205.8	1618.3	1689.1	1776.8	4370.7	11332.4	15666.3	17549.7	16914.9
72.5°	695.6	735.4	875.9	1255.6	1367.2	1199.8	2163.4	8236.2	13462.0	15873.6	15364.3
75°	503.2	533.1	636.8	960.6	1094.2	913.8	1079.2	4813.2	9390.2	11166.0	11255.7
77.5°	384.7	407.6	475.3	703.5	875.9	685.6	669.7	2214.3	4452.4	4474.4	4725.5
80°	308.9	323.9	360.7	495.3	671.7	513.2	436.5	893.9	1407.1	1190.8	1249.6
82.5°	227.2	252.1	304.9	347.8	480.3	353.8	266.1	451.4	535.1	460.4	464.4
85°	129.5	146.5	184.4	249.1	306.9	216.2	152.5	200.3	249.1	204.3	182.4
87.5°	45.8	59.8	64.8	97.7	133.5	89.7	58.8	57.8	81.7	60.8	50.8
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°	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4
2.5°	2773.3	2768.3	2748.4	2721.5	2693.6	2666.7	2657.7	2638.8	2625.8	2618.9	2626.8
5°	2829.1	2813.2	2766.3	2706.5	2643.8	2576.0	2528.2	2484.3	2452.4	2422.5	2434.5
7.5°	2908.8	2880.9	2800.2	2695.6	2584.0	2471.4	2387.7	2323.9	2281.0	2253.1	2259.1
10°	3001.5	2958.7	2835.1	2678.6	2506.2	2344.8	2246.2	2191.3	2164.4	2149.5	2153.5
12.5°	3108.1	3047.4	2871.0	2639.8	2387.7	2203.3	2135.5	2119.6	2120.6	2121.6	2123.6
15°	3239.7	3155.0	2899.9	2555.1	2233.2	2094.7	2082.7	2108.6	2135.5	2148.5	2147.5
17.5°	3388.2	3268.6	2904.9	2415.6	2081.7	2024.9	2062.8	2118.6	2159.5	2177.4	2181.4
20°	3547.6	3384.2	2869.0	2218.3	1957.2	1968.1	2035.9	2107.6	2152.5	2175.4	2181.4
22.5°	3730.0	3507.7	2783.3	2011.0	1855.5	1906.3	1986.1	2055.8	2102.7	2125.6	2131.6
25°	3938.2	3646.3	2648.7	1836.6	1767.8	1836.6	1916.3	1974.1	2012.0	2032.9	2038.9
27.5°	4169.4	3790.8	2469.4	1698.1	1691.1	1764.8	1830.6	1875.4	1895.4	1911.3	1917.3
30°	4401.6	3922.3	2252.1	1593.4	1624.3	1694.1	1740.9	1760.8	1766.8	1769.8	1776.8
32.5°	4652.7	4035.9	2023.9	1506.7	1560.5	1625.3	1653.2	1662.2	1634.3	1615.4	1621.3
35°	4956.7	4157.5	1800.7	1438.0	1497.8	1553.6	1562.5	1554.6	1521.7	1482.8	1484.8
37.5°	5332.4	4308.9	1622.3	1389.1	1439.0	1475.8	1464.9	1462.9	1465.9	1420.0	1423.0
40°	5792.8	4506.3	1491.8	1351.3	1391.1	1399.1	1368.2	1385.2	1400.1	1330.4	1332.3
42.5°	6304.0	4744.4	1409.1	1325.4	1351.3	1332.3	1284.5	1303.4	1301.5	1209.8	1208.8
45°	6825.2	5003.5	1380.2	1306.4	1314.4	1276.5	1223.7	1228.7	1186.9	1104.1	1107.1
47.5°	7343.4	5281.6	1398.1	1290.5	1268.6	1225.7	1184.9	1162.9	1101.2	1039.4	1039.4
50°	7851.6	5573.5	1463.9	1258.6	1205.8	1180.9	1151.0	1112.1	1046.3	993.5	989.5
52.5°	8322.9	5867.5	1537.6	1205.8	1127.1	1142.0	1123.1	1078.2	1013.5	959.6	960.6
55°	8769.4	6161.5	1566.5	1133.0	1053.3	1108.1	1097.2	1014.5	936.7	892.9	888.9
57.5°	9255.7	6515.2	1534.6	1040.4	993.5	1069.3	1027.4	935.7	890.9	858.0	855.0
60°	9929.3	7070.3	1465.9	925.8	936.7	1011.5	939.7	901.8	853.0	816.1	814.2
62.5°	11048.4	8105.7	1355.3	812.2	870.0	925.8	897.9	860.0	810.2	774.3	774.3
65°	12702.6	9544.7	1147.0	723.5	795.2	842.1	853.0	815.2	763.3	725.5	727.5
67.5°	14097.8	10447.5	868.0	649.7	718.5	774.3	805.2	768.3	713.5	676.6	677.6
70°	14021.0	9791.8	662.7	577.0	650.7	707.5	747.4	718.5	659.7	624.8	627.8
72.5°	12453.5	8191.4	536.1	503.2	582.0	637.8	685.6	663.7	603.9	570.0	570.0
75°	9149.0	5814.7	428.5	428.5	496.3	565.0	617.8	603.9	549.1	525.2	518.2
77.5°	3856.5	2439.5	335.8	355.8	412.6	485.3	551.1	556.1	508.2	538.1	488.3
80°	1025.4	672.7	256.1	280.0	323.9	400.6	479.3	477.3	425.5	397.6	369.7
82.5°	390.6	265.1	182.4	197.3	234.2	306.9	379.7	391.6	339.8	294.0	294.0
85°	150.5	113.6	112.6	118.6	136.5	203.3	287.0	297.0	256.1	217.2	224.2
87.5°	38.9	33.9	41.9	39.9	62.8	108.6	164.4	170.4	156.5	90.7	129.5
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)