

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: P885017

Luminaire Tested: **NAV-SB6A-835-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885017
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-SB6A-835-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22763 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

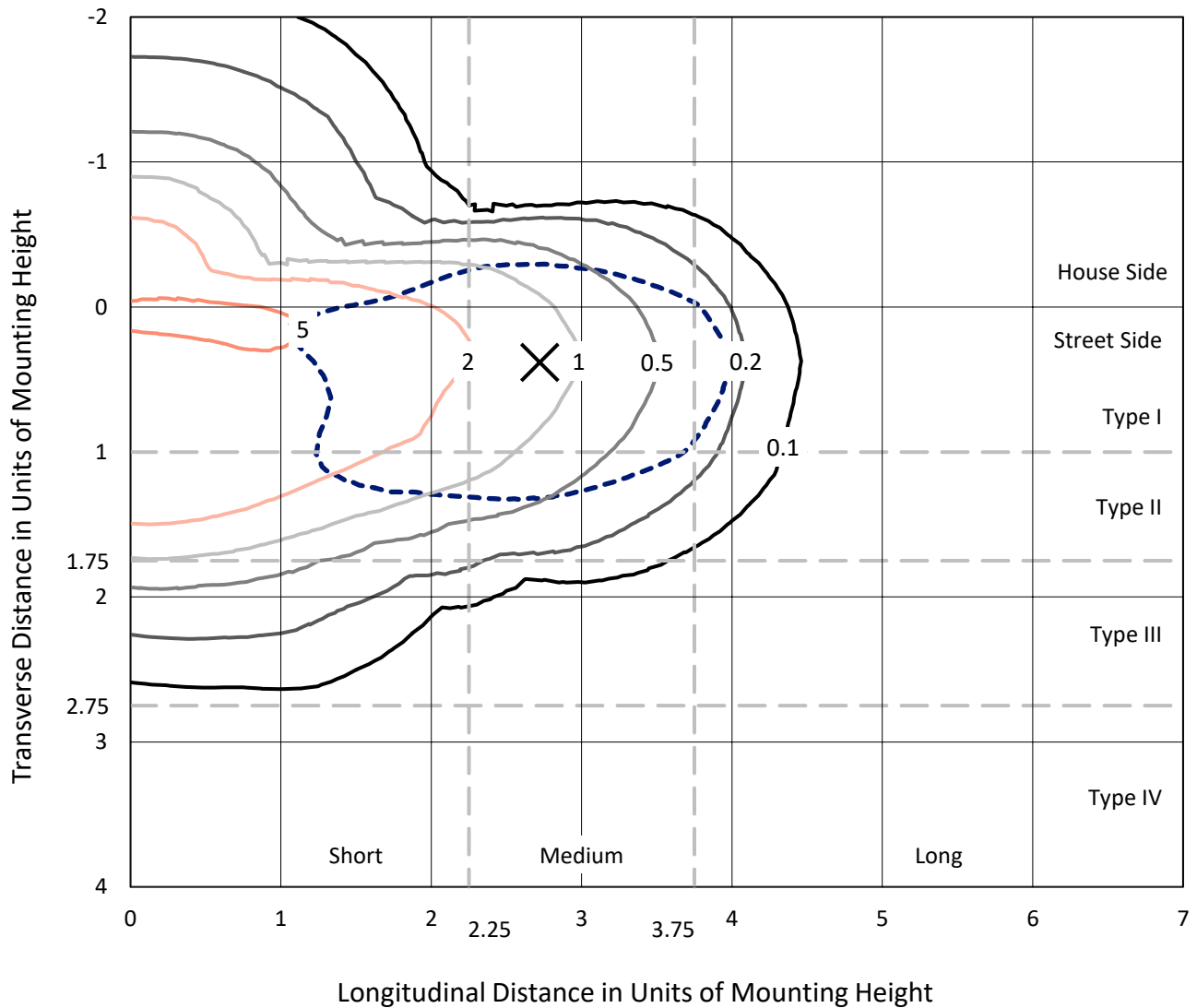
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

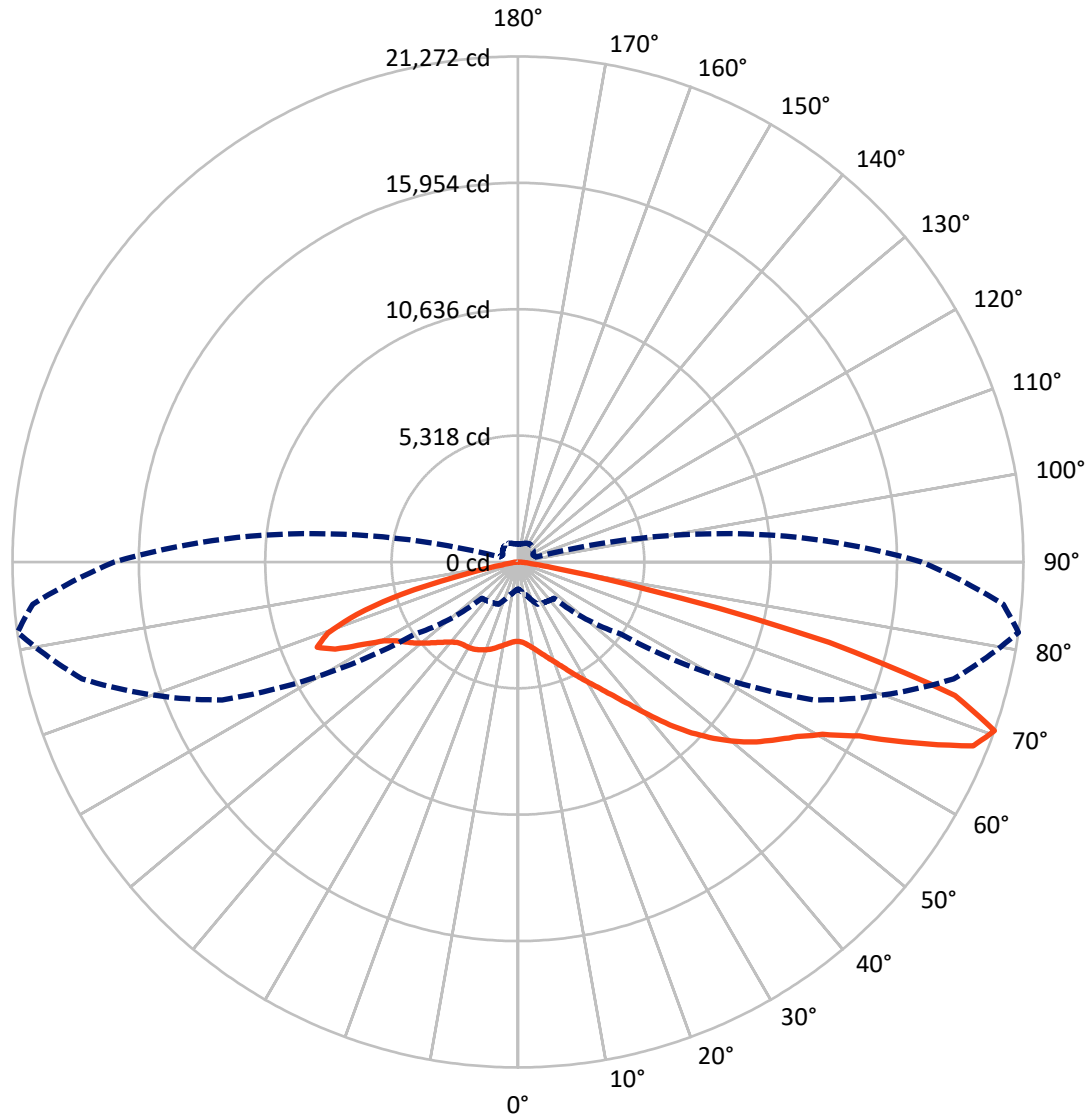
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	5611.6	0.0	5611.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	17151.4	0.0	17151.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	22763.0	0.0	22763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.1	1.4
10°-20°	905.3	4.0
20°-30°	1514.5	6.7
30°-40°	2366.0	10.4
40°-50°	3768.2	16.6
50°-60°	5243.9	23.0
60°-70°	5485.3	24.1
70°-80°	2866.9	12.6
80°-90°	297.7	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°	22763.0	100.0
0°-180°	22763.0	100.0

Coefficient of Utilization



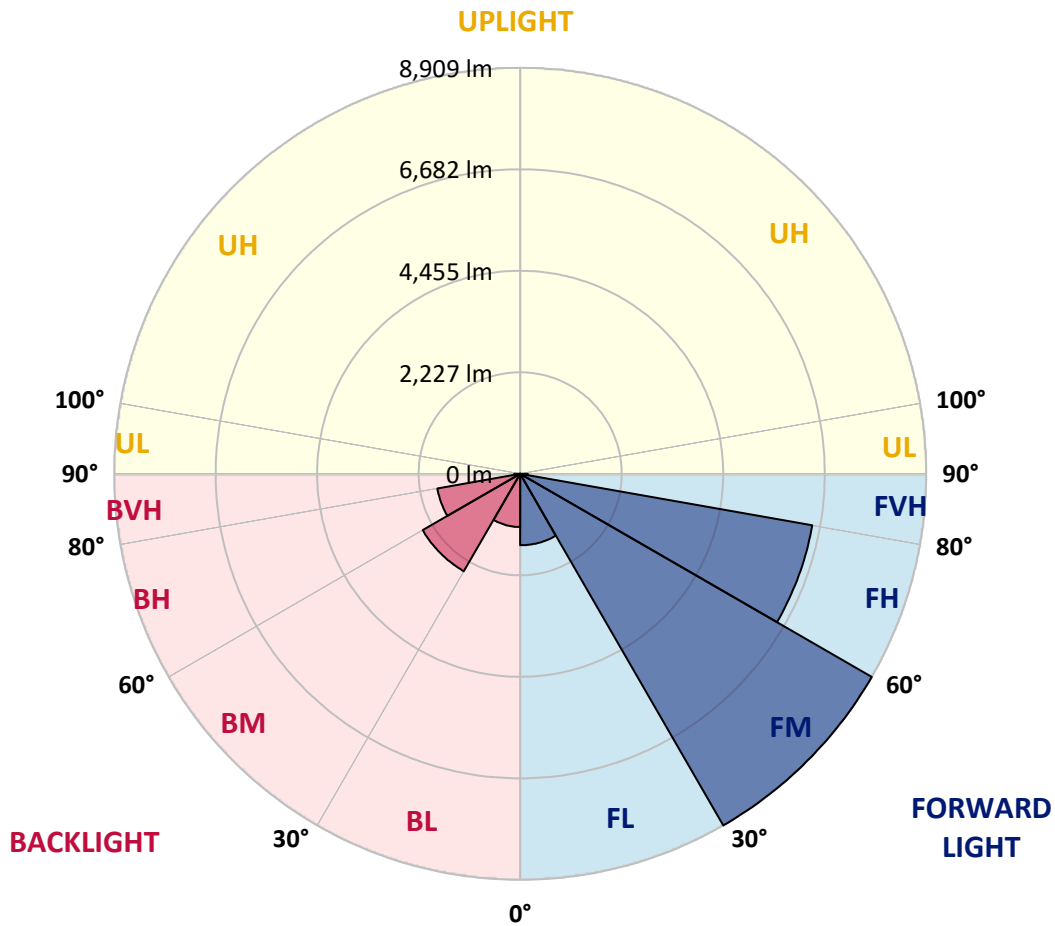
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1567.5	6.9			
FM (30°-60°)	8909.2	39.1			
FH (60°-80°)	6508.0	28.6			G3/7500
FVH (80°-90°)	166.7	0.7			G2/225
BL (0°-30°)	1167.4	5.1	B3/2500		
BM (30°-60°)	2468.9	10.8	B2/2500		
BH (60°-80°)	1844.3	8.1	B3/2500		G3/2500
BVH (80°-90°)	131.0	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°	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3
2.5°	3417.1	3436.4	3430.3	3424.3	3424.3	3415.9	3414.6	3402.6	3392.9	3377.2	3373.6
5°	3460.5	3481.1	3478.7	3483.5	3499.2	3502.8	3506.4	3499.2	3479.9	3460.5	3452.1
7.5°	3421.9	3444.8	3452.1	3481.1	3529.4	3572.9	3605.5	3618.8	3600.7	3572.9	3559.6
10°	3291.4	3316.8	3342.2	3411.0	3496.8	3599.4	3686.4	3738.4	3734.7	3708.2	3685.2
12.5°	3026.9	3053.5	3107.8	3241.9	3398.9	3580.1	3742.0	3850.7	3888.1	3868.8	3828.9
15°	2815.5	2838.5	2879.6	3017.3	3221.4	3496.8	3762.5	3973.9	4069.3	4058.4	4010.1
17.5°	2809.5	2819.2	2844.5	2909.8	3066.8	3366.3	3740.8	4094.7	4277.1	4275.9	4215.5
20°	2915.8	2919.4	2933.9	2947.2	3036.6	3267.3	3685.2	4194.9	4510.2	4510.2	4445.0
22.5°	3063.2	3060.7	3075.2	3063.2	3106.6	3258.8	3650.2	4283.1	4769.9	4789.2	4707.1
25°	3284.2	3272.1	3268.5	3240.7	3249.2	3337.3	3688.8	4383.4	5077.9	5117.7	5015.1
27.5°	3578.9	3559.6	3546.3	3482.3	3460.5	3499.2	3807.2	4504.1	5420.9	5489.8	5359.3
30°	3963.0	3928.0	3908.7	3797.5	3719.0	3725.1	3986.0	4664.8	5779.7	5890.8	5725.3
32.5°	4487.2	4432.9	4380.9	4198.6	4054.8	4007.7	4216.7	4887.0	6168.6	6346.1	6133.6
35°	5074.3	5030.8	4975.2	4693.8	4472.7	4364.0	4528.3	5197.5	6624.0	6905.4	6628.8
37.5°	5639.5	5602.1	5628.7	5249.4	4964.3	4806.1	4936.6	5614.2	7185.6	7601.1	7249.6
40°	6224.1	6195.2	6198.8	5836.4	5504.3	5326.7	5431.8	6137.2	7829.4	8428.5	7996.1
42.5°	6859.5	6837.7	6765.3	6444.0	6070.7	5905.3	6001.9	6741.1	8520.3	9370.6	8815.0
45°	7570.9	7557.6	7490.0	7121.6	6694.0	6508.0	6638.4	7407.9	9214.8	10257.2	9637.6
47.5°	8185.7	8196.6	8188.1	7877.7	7434.4	7161.5	7317.3	8103.6	9861.0	11090.6	10426.3
50°	8481.7	8538.4	8621.8	8525.1	8249.7	7971.9	8002.1	8775.2	10477.1	11872.1	11182.4
52.5°	8327.0	8434.5	8661.6	8816.2	8922.5	8864.5	8783.6	9441.9	11056.8	12577.5	11897.5
55°	7750.9	7901.9	8278.7	8652.0	9194.3	9615.8	9722.1	10181.1	11622.1	13198.4	12573.9
57.5°	6701.3	6946.5	7284.7	8039.6	8952.7	9979.4	10816.5	11206.6	12221.2	13861.5	13281.7
60°	4901.5	5230.1	5650.4	6773.7	8107.2	9784.9	11747.7	12781.7	13072.8	14720.3	14203.3
62.5°	3136.8	3339.8	3726.3	4784.4	6317.2	8788.5	12032.8	14750.5	14516.2	16128.7	15585.1
65°	2147.6	2278.0	2631.9	3226.2	4083.8	6541.8	11269.4	16226.5	16808.7	18360.8	17947.7
67.5°	1560.6	1659.6	1961.6	2482.2	2660.9	3871.2	8745.0	16158.9	19037.2	20660.6	20018.0
70°	1137.8	1207.9	1461.5	1961.6	2047.3	2153.6	5297.7	13735.9	18988.9	21271.8	20502.4
72.5°	843.1	891.4	1061.7	1521.9	1657.2	1454.3	2622.3	9983.0	16317.1	19240.1	18622.9
75°	610.0	646.2	771.8	1164.4	1326.2	1107.6	1308.1	5834.0	11381.7	13534.2	13642.9
77.5°	466.2	494.0	576.2	852.8	1061.7	831.0	811.7	2683.9	5396.8	5423.3	5727.7
80°	374.4	392.6	437.2	600.3	814.1	622.1	529.0	1083.5	1705.5	1443.4	1514.7
82.5°	275.4	305.6	369.6	421.5	582.2	428.8	322.5	547.2	648.6	558.0	562.9
85°	157.0	177.6	223.5	302.0	372.0	262.1	184.8	242.8	302.0	247.6	221.0
87.5°	55.6	72.5	78.5	118.4	161.9	108.7	71.3	70.1	99.0	73.7	61.6
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°	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3
2.5°	3361.5	3355.5	3331.3	3298.7	3264.9	3232.3	3221.4	3198.4	3182.7	3174.3	3183.9
5°	3429.1	3409.8	3353.0	3280.6	3204.5	3122.3	3064.4	3011.2	2972.6	2936.3	2950.8
7.5°	3525.8	3491.9	3394.1	3267.3	3132.0	2995.5	2894.1	2816.7	2764.8	2731.0	2738.2
10°	3638.1	3586.2	3436.4	3246.8	3037.8	2842.1	2722.5	2656.1	2623.5	2605.4	2610.2
12.5°	3767.3	3693.7	3479.9	3199.6	2894.1	2670.6	2588.5	2569.1	2570.3	2571.6	2574.0
15°	3926.8	3824.1	3514.9	3097.0	2706.8	2538.9	2524.4	2555.8	2588.5	2604.2	2603.0
17.5°	4106.8	3961.8	3520.9	2927.9	2523.2	2454.4	2500.3	2567.9	2617.5	2639.2	2644.0
20°	4300.0	4101.9	3477.5	2688.7	2372.3	2385.5	2467.7	2554.6	2609.0	2636.8	2644.0
22.5°	4521.1	4251.7	3373.6	2437.5	2249.1	2310.7	2407.3	2491.8	2548.6	2576.4	2583.6
25°	4773.5	4419.6	3210.5	2226.1	2142.8	2226.1	2322.7	2392.8	2438.7	2464.1	2471.3
27.5°	5053.7	4594.7	2993.1	2058.2	2049.8	2139.1	2218.9	2273.2	2297.4	2316.7	2323.9
30°	5335.2	4754.2	2729.8	1931.4	1968.8	2053.4	2110.1	2134.3	2141.6	2145.2	2153.6
32.5°	5639.5	4891.9	2453.2	1826.3	1891.5	1970.0	2003.9	2014.7	1980.9	1958.0	1965.2
35°	6007.9	5039.2	2182.6	1743.0	1815.4	1883.1	1893.9	1884.3	1844.4	1797.3	1799.7
37.5°	6463.3	5222.8	1966.4	1683.8	1744.2	1788.9	1775.6	1773.2	1776.8	1721.2	1724.8
40°	7021.3	5462.0	1808.2	1637.9	1686.2	1695.8	1658.4	1678.9	1697.1	1612.5	1614.9
42.5°	7641.0	5750.7	1707.9	1606.5	1637.9	1614.9	1556.9	1579.9	1577.5	1466.4	1465.1
45°	8272.7	6064.7	1672.9	1583.5	1593.2	1547.3	1483.3	1489.3	1438.6	1338.3	1341.9
47.5°	8900.8	6401.7	1694.6	1564.2	1537.6	1485.7	1436.2	1409.6	1334.7	1259.8	1259.8
50°	9516.8	6755.6	1774.4	1525.5	1461.5	1431.3	1395.1	1348.0	1268.3	1204.2	1199.4
52.5°	10088.1	7111.9	1863.7	1461.5	1366.1	1384.2	1361.3	1306.9	1228.4	1163.2	1164.4
55°	10629.2	7468.3	1898.8	1373.3	1276.7	1343.1	1329.9	1229.6	1135.4	1082.3	1077.4
57.5°	11218.7	7897.0	1860.1	1261.0	1204.2	1296.0	1245.3	1134.2	1079.8	1040.0	1036.4
60°	12035.2	8569.8	1776.8	1122.1	1135.4	1226.0	1139.0	1093.1	1033.9	989.2	986.8
62.5°	13391.6	9824.8	1642.7	984.4	1054.5	1122.1	1088.3	1042.4	982.0	938.5	938.5
65°	15396.7	11569.0	1390.3	876.9	963.9	1020.6	1033.9	988.0	925.2	879.3	881.7
67.5°	17087.7	12663.3	1052.1	787.5	870.9	938.5	976.0	931.3	864.8	820.1	821.4
70°	16994.7	11868.5	803.2	699.4	788.7	857.6	905.9	870.9	799.6	757.3	761.0
72.5°	15094.7	9928.7	649.8	610.0	705.4	773.0	831.0	804.4	732.0	690.9	690.9
75°	11089.4	7047.9	519.4	519.4	601.5	684.9	748.9	732.0	665.5	636.5	628.1
77.5°	4674.5	2956.9	407.1	431.2	500.1	588.2	668.0	674.0	616.0	652.2	591.9
80°	1242.9	815.3	310.4	339.4	392.6	485.6	581.0	578.6	515.8	481.9	448.1
82.5°	473.5	321.3	221.0	239.2	283.8	372.0	460.2	474.7	411.9	356.3	356.3
85°	182.4	137.7	136.5	143.7	165.5	246.4	347.9	359.9	310.4	263.3	271.8
87.5°	47.1	41.1	50.7	48.3	76.1	131.7	199.3	206.5	189.6	109.9	157.0
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)