

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: P965237

Luminaire Tested: **NAV-SB3D-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

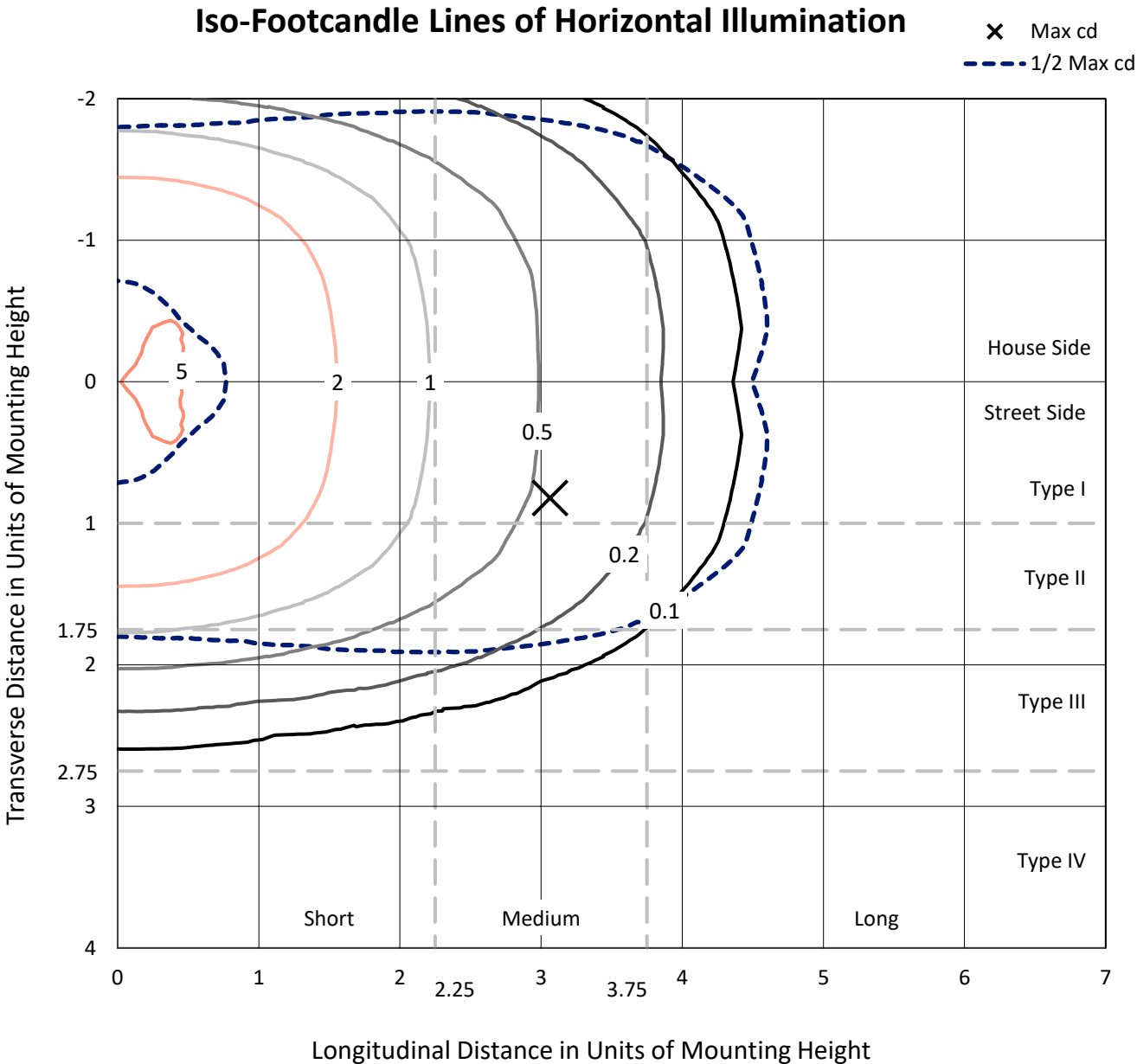
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28957.3 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

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



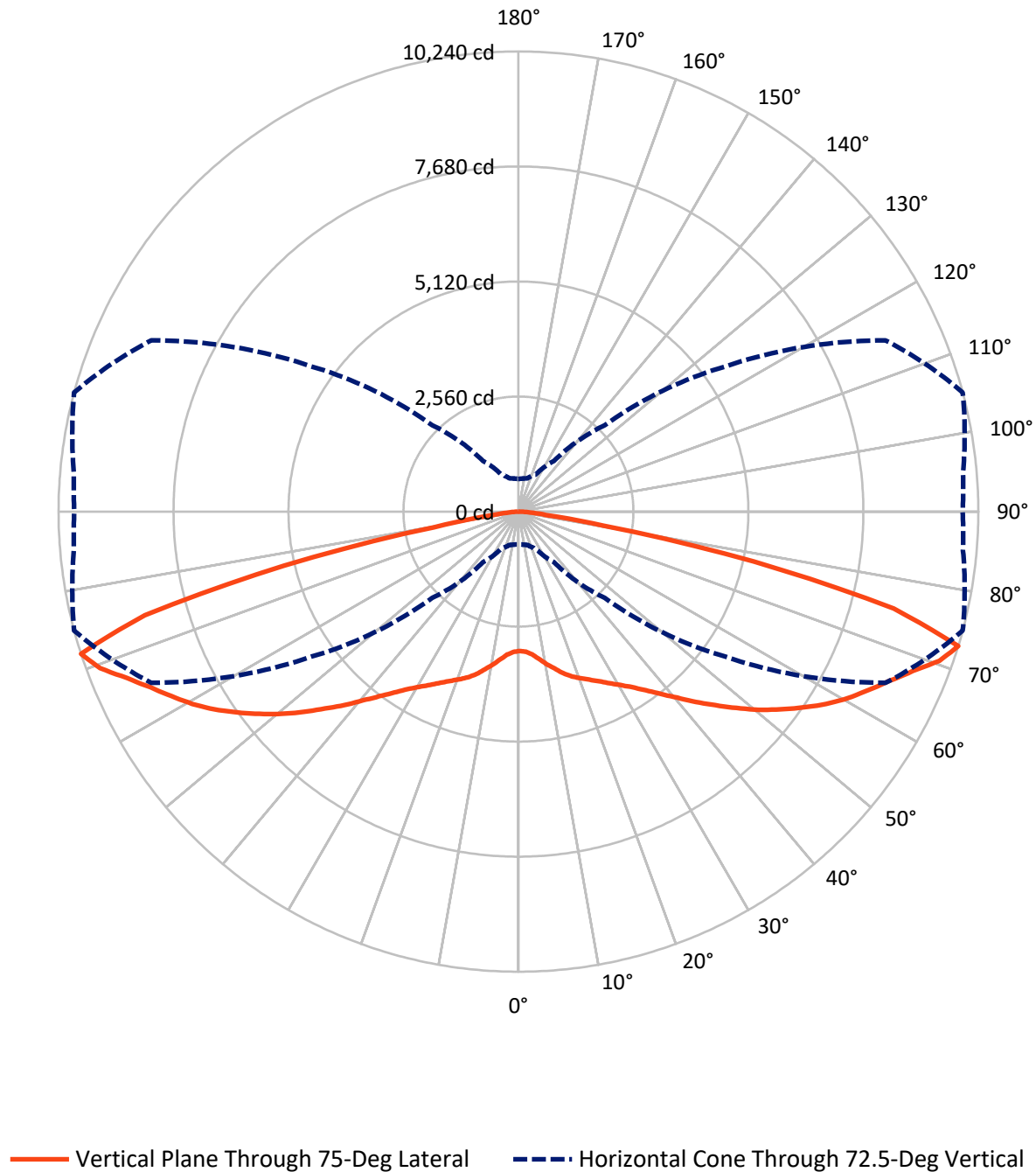
REPORT NUMBER: P965237
CATALOG NUMBER: NAV-SB3D-830-U-RW



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type III - Medium - N/A

REPORT NUMBER: P965237
CATALOG NUMBER: NAV-SB3D-830-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P965237

CATALOG NUMBER: NAV-SB3D-830-U-RW

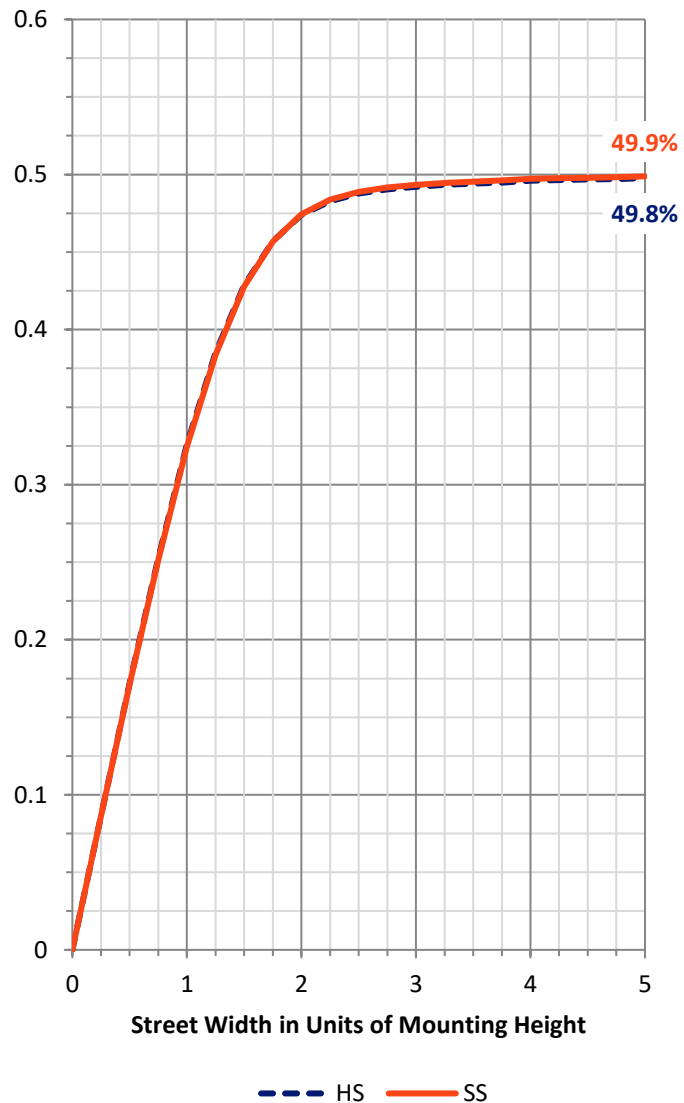
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14478.6	0.0	14478.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14478.6	0.0	14478.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	28957.3	0.0	28957.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.9	1.0
10°-20°	1002.2	3.5
20°-30°	1936.5	6.7
30°-40°	3269.9	11.3
40°-50°	5185.6	17.9
50°-60°	6943.0	24.0
60°-70°	6607.5	22.8
70°-80°	3447.9	11.9
80°-90°	261.0	0.9
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°	28957.3	100.0
0°-180°	28957.3	100.0

Coefficient of Utilization



REPORT NUMBER: P965237

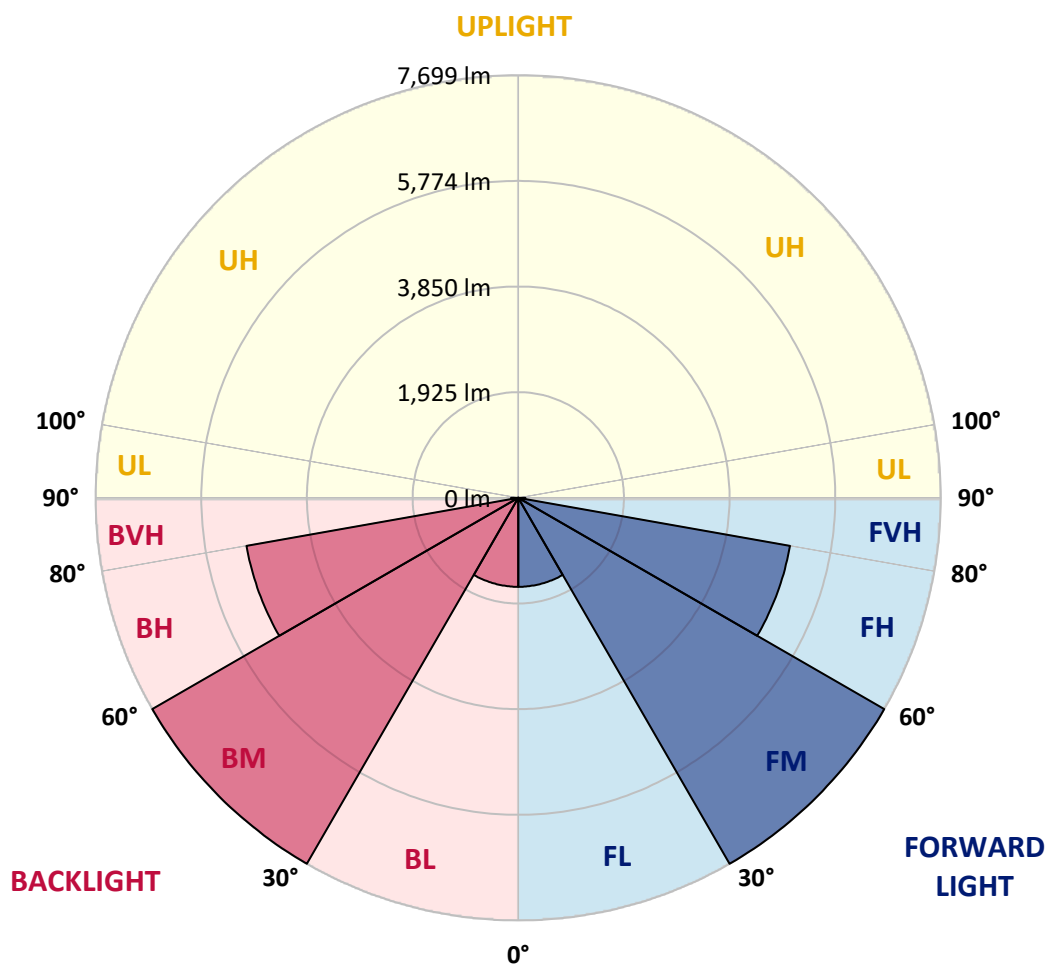
CATALOG NUMBER: NAV-SB3D-830-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1621.3	5.6			
FM	(30°-60°)	7699.2	26.6			
FH	(60°-80°)	5027.7	17.4			G3/7500
FVH	(80°-90°)	130.5	0.5			G2/225
BL	(0°-30°)	1621.3	5.6	B3/2500		
BM	(30°-60°)	7699.2	26.6	B4/8500		
BH	(60°-80°)	5027.7	17.4	B5		G5
BVH	(80°-90°)	130.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



REPORT NUMBER: P965237

CATALOG NUMBER: NAV-SB3D-830-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3101.9	3101.9	3101.9	3101.9	3101.9	3101.9	3101.9	3101.9	3101.9	3101.9	3101.9
2.5°	3101.9	3098.9	3101.9	3104.8	3103.3	3103.3	3110.7	3115.2	3124.0	3122.6	3121.0
5°	3081.1	3079.7	3091.5	3104.8	3115.2	3132.9	3155.1	3171.4	3192.1	3196.5	3196.5
7.5°	3070.8	3066.4	3087.1	3110.7	3143.3	3187.5	3230.5	3274.9	3310.3	3322.1	3325.1
10°	3078.2	3079.7	3107.8	3152.1	3203.8	3266.0	3326.5	3402.0	3452.2	3464.1	3475.9
12.5°	3112.2	3109.2	3156.6	3227.5	3298.4	3376.9	3447.8	3530.6	3585.3	3613.4	3625.2
15°	3174.3	3168.4	3234.9	3339.9	3443.4	3535.0	3592.7	3671.0	3734.6	3770.2	3783.4
17.5°	3248.2	3251.2	3338.4	3474.4	3610.5	3713.9	3768.6	3808.6	3857.4	3888.4	3903.2
20°	3378.3	3384.2	3481.8	3643.0	3798.2	3916.5	3960.8	3946.0	3959.4	3983.0	4000.8
22.5°	3552.8	3555.7	3665.1	3839.6	4002.2	4132.4	4161.9	4101.3	4064.3	4080.6	4092.4
25°	3755.3	3774.6	3883.9	4062.9	4230.0	4354.1	4367.4	4275.8	4184.0	4188.6	4195.9
27.5°	4002.2	4019.9	4130.9	4308.3	4478.3	4586.3	4584.7	4462.0	4327.5	4293.5	4303.9
30°	4269.8	4289.0	4402.9	4586.3	4744.4	4839.0	4818.3	4672.0	4479.8	4416.2	4423.6
32.5°	4587.7	4599.6	4714.9	4898.2	5044.5	5120.0	5077.1	4896.7	4657.2	4584.7	4602.5
35°	4972.1	4989.9	5075.6	5248.6	5377.3	5439.3	5366.9	5154.0	4884.8	4803.6	4815.3
37.5°	5411.2	5399.4	5497.0	5650.7	5757.2	5795.7	5696.5	5443.8	5145.1	5048.9	5066.8
40°	5869.6	5863.6	5970.1	6117.9	6175.6	6199.2	6052.8	5776.4	5445.2	5341.7	5375.7
42.5°	6285.0	6280.6	6424.0	6588.1	6657.6	6630.9	6446.1	6129.8	5792.7	5674.4	5703.9
45°	6617.7	6611.8	6787.7	7018.3	7154.3	7110.0	6861.7	6520.1	6144.6	6021.9	6050.0
47.5°	6873.4	6876.4	7065.6	7351.0	7589.0	7605.3	7285.9	6917.8	6531.9	6392.9	6434.3
50°	7058.3	7067.1	7269.7	7586.0	7911.4	8054.8	7719.2	7325.9	6932.6	6775.9	6823.1
52.5°	7104.1	7120.4	7364.3	7735.4	8118.3	8391.9	8159.7	7717.6	7312.6	7163.2	7201.6
55°	6860.1	6892.6	7201.6	7723.6	8245.5	8613.6	8547.1	8115.3	7695.5	7541.7	7584.6
57.5°	6299.8	6345.6	6706.4	7388.0	8217.3	8765.9	8847.2	8496.8	8078.4	7930.5	7964.6
60°	5514.7	5569.4	5915.4	6659.0	7821.2	8822.1	9058.6	8867.9	8430.3	8286.8	8317.9
62.5°	4330.4	4401.5	4815.3	5687.7	6984.4	8560.4	9239.0	9203.5	8746.6	8567.8	8588.5
65°	2778.1	2853.5	3289.6	4320.1	5868.0	7759.0	9295.2	9530.2	9080.8	8830.9	8861.9
67.5°	1675.2	1709.1	1925.0	2618.4	4289.0	6551.1	8819.1	9892.5	9471.1	9160.6	9184.3
70°	1071.9	1091.1	1219.8	1537.6	2424.7	4779.9	7639.3	9960.5	9944.2	9499.2	9496.2
72.5°	727.4	733.3	767.3	910.7	1372.1	2715.9	5634.4	9017.2	10240.0	9935.3	9888.1
75°	532.3	564.8	619.5	644.6	779.2	1357.2	3229.0	6335.3	8629.9	8762.9	8440.7
77.5°	396.3	397.7	473.1	502.7	555.9	722.9	1366.1	3536.6	5358.0	5625.6	5018.0
80°	335.6	317.9	316.4	405.1	418.4	450.9	610.6	1221.2	1919.1	1163.6	879.7
82.5°	279.4	260.2	235.0	316.4	285.4	276.4	264.7	496.8	610.6	300.1	255.7
85°	195.2	186.2	177.4	206.9	162.7	139.0	127.1	232.2	257.3	127.1	112.3
87.5°	84.3	87.2	88.7	91.6	68.1	48.8	48.8	65.1	65.1	50.2	37.0
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)