

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: McGRAW-EDISON

Report Number: P452689

Luminaire Tested: **GALN-SA3C-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17207 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 160
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

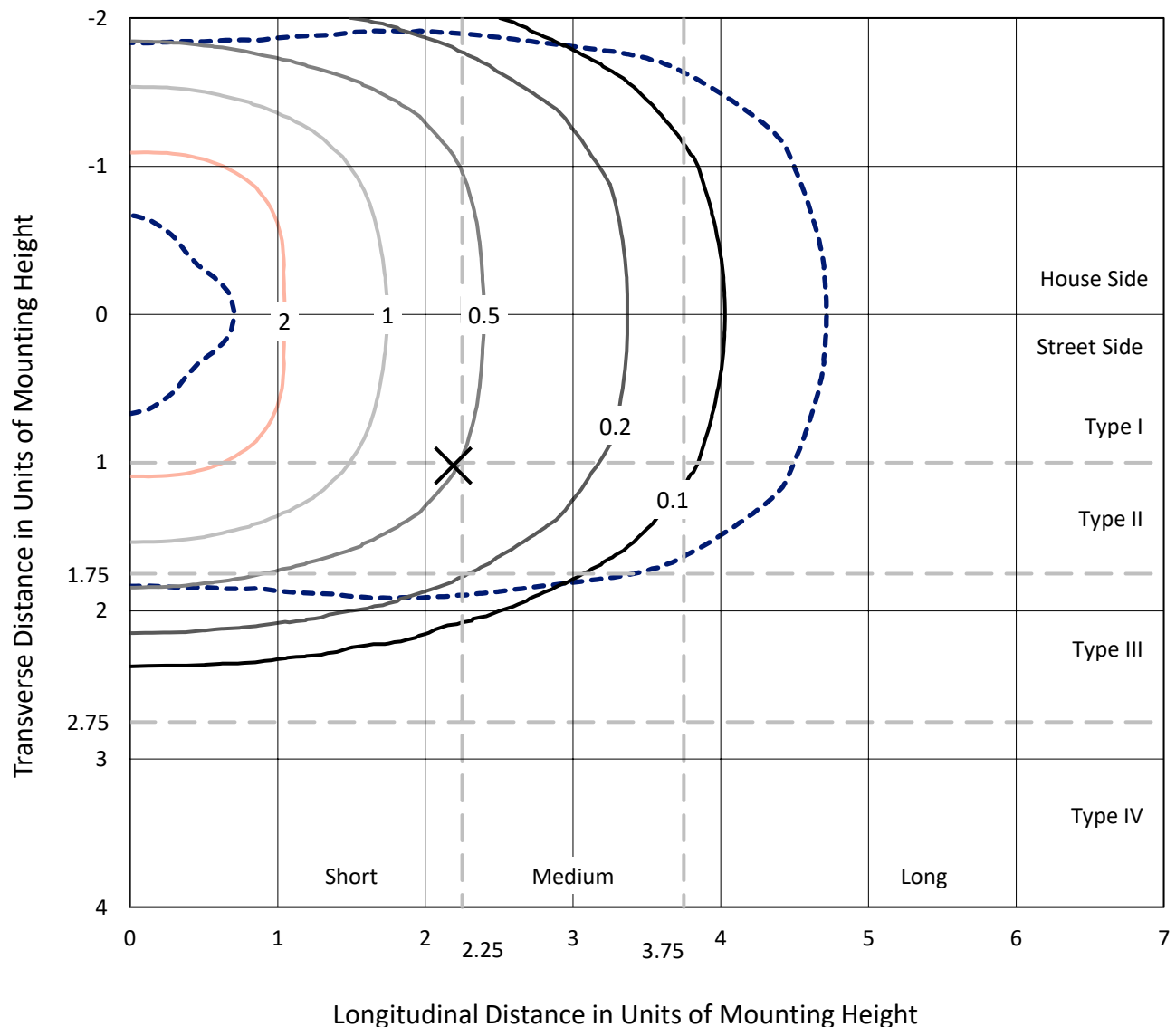


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

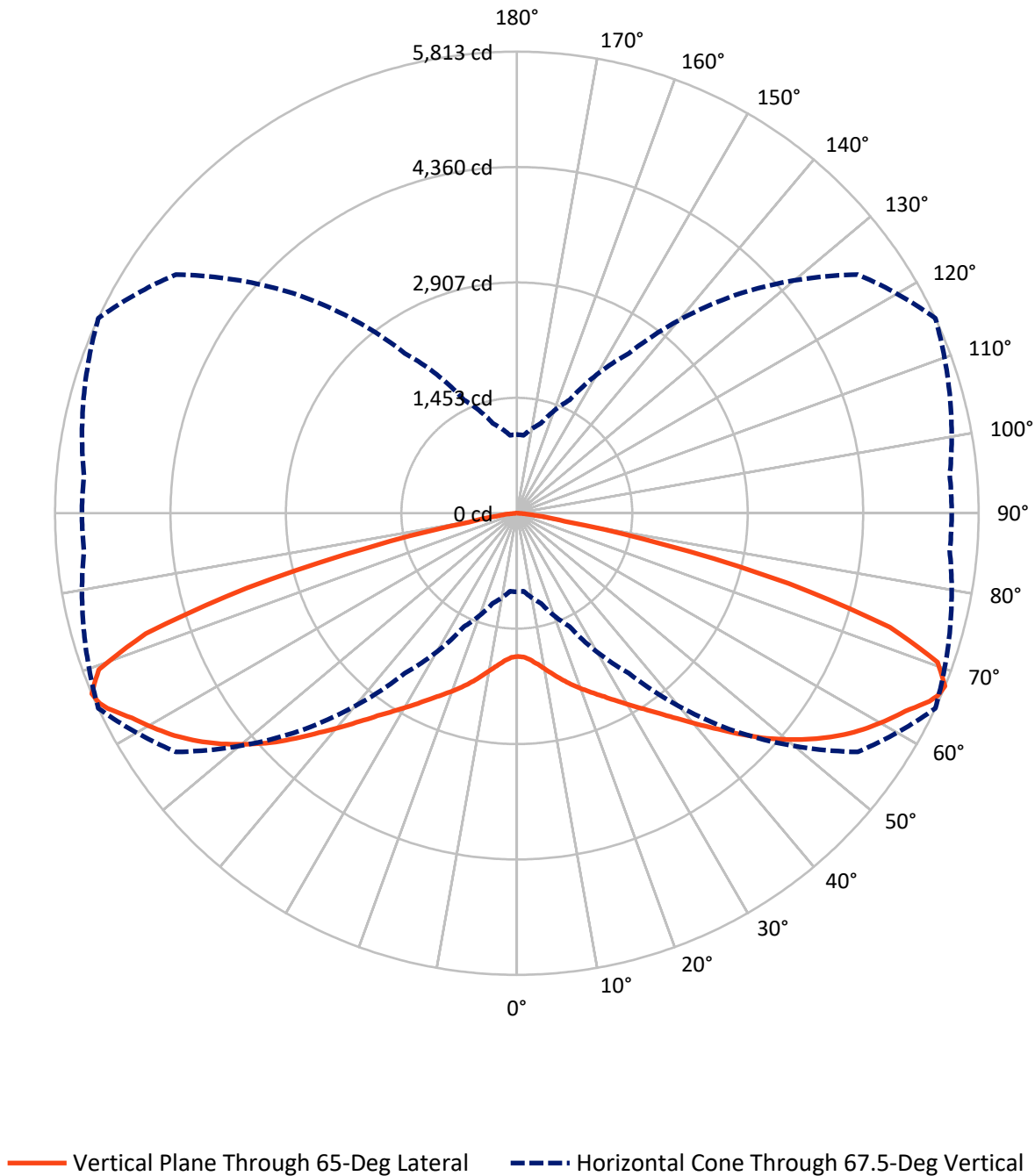


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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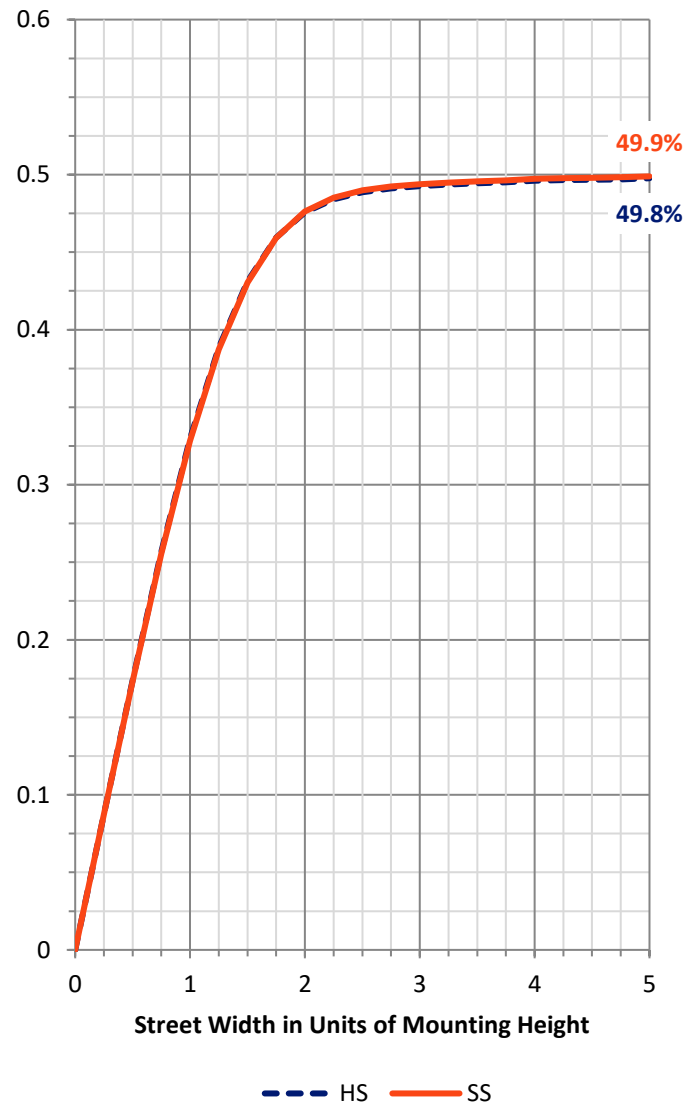
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8603.5	0.0	8603.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8603.5	0.0	8603.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17207.0	0.0	17207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	1.0
10°-20°	594.9	3.5
20°-30°	1163.7	6.8
30°-40°	1979.3	11.5
40°-50°	3132.7	18.2
50°-60°	4153.9	24.1
60°-70°	3918.4	22.8
70°-80°	1937.0	11.3
80°-90°	149.3	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°	17207.0	100.0
0°-180°	17207.0	100.0

Coefficient of Utilization



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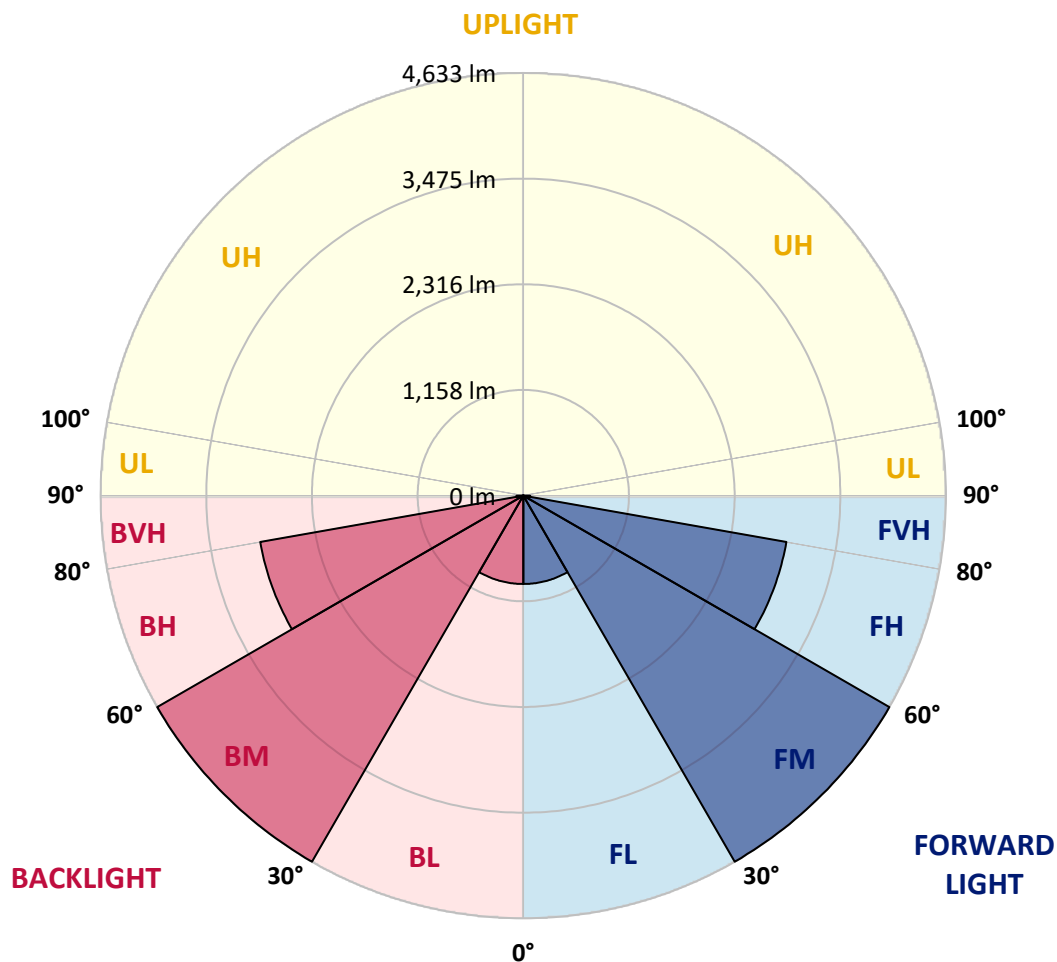
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	968.2	5.6			
FM	(30°-60°)	4632.9	26.9			
FH	(60°-80°)	2927.7	17.0			G2/5000
FVH	(80°-90°)	74.6	0.4			G1/100
BL	(0°-30°)	968.2	5.6	B2/1000		
BM	(30°-60°)	4632.9	26.9	B3/5000		
BH	(60°-80°)	2927.7	17.0	B4/5000		G4/5000
BVH	(80°-90°)	74.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1802.3	1802.3	1802.3	1802.3	1802.3	1802.3	1802.3	1802.3	1802.3	1802.3	1802.3
2.5°	1793.1	1794.9	1796.8	1799.5	1803.2	1808.7	1812.4	1815.2	1822.6	1823.5	1822.6
5°	1786.6	1788.5	1793.1	1801.4	1813.3	1829.9	1842.8	1858.5	1870.5	1878.8	1877.0
7.5°	1785.7	1789.4	1796.8	1814.3	1837.3	1865.9	1895.4	1922.1	1945.2	1963.6	1960.8
10°	1800.4	1805.0	1817.0	1842.8	1878.8	1920.3	1961.8	2001.4	2034.6	2058.6	2066.9
12.5°	1825.3	1829.0	1851.1	1889.9	1941.5	1993.1	2040.1	2089.0	2135.1	2175.6	2175.6
15°	1868.7	1875.1	1902.8	1959.0	2022.6	2082.5	2130.5	2182.1	2231.9	2278.0	2291.8
17.5°	1928.6	1937.8	1979.3	2051.2	2132.3	2187.6	2232.8	2275.2	2318.5	2362.8	2369.2
20°	2010.6	2019.8	2075.2	2161.8	2257.7	2324.1	2354.5	2364.6	2385.8	2428.2	2433.8
22.5°	2122.2	2131.4	2193.2	2290.9	2397.8	2469.7	2482.6	2458.7	2453.1	2486.3	2490.0
25°	2248.5	2256.8	2327.8	2432.8	2543.5	2621.8	2618.1	2559.1	2526.0	2546.2	2551.8
27.5°	2390.4	2402.4	2474.3	2583.1	2703.0	2772.1	2761.0	2675.3	2604.3	2600.6	2602.5
30°	2572.1	2585.0	2653.2	2757.4	2875.4	2939.0	2915.9	2800.7	2691.0	2654.1	2654.1
32.5°	2763.8	2796.1	2865.2	2974.0	3066.2	3112.3	3077.2	2939.0	2793.3	2741.7	2738.9
35°	3013.6	3031.2	3099.4	3205.4	3274.5	3310.5	3243.2	3094.8	2927.0	2866.1	2857.8
37.5°	3257.9	3272.7	3352.0	3453.4	3537.3	3535.4	3444.2	3280.1	3092.9	3024.7	3019.2
40°	3507.8	3523.4	3613.8	3706.9	3790.8	3783.4	3672.8	3489.3	3290.2	3213.7	3228.4
42.5°	3724.4	3741.9	3844.3	3977.0	4052.6	4050.8	3922.6	3716.1	3508.7	3440.5	3453.4
45°	3921.7	3937.4	4056.3	4208.4	4319.0	4332.9	4192.7	3974.2	3761.3	3673.7	3677.4
47.5°	4060.9	4090.4	4214.8	4389.1	4539.4	4588.2	4450.9	4237.0	3991.8	3900.5	3906.0
50°	4166.9	4185.3	4320.9	4519.1	4709.0	4810.4	4699.8	4480.4	4222.2	4125.4	4138.3
52.5°	4179.8	4201.9	4349.4	4578.1	4821.4	4975.4	4921.0	4718.2	4457.3	4357.7	4385.4
55°	4074.7	4087.6	4263.7	4541.2	4865.7	5098.0	5111.8	4939.4	4681.3	4605.7	4624.2
57.5°	3775.1	3808.3	4031.4	4368.8	4804.9	5163.5	5254.7	5140.4	4908.1	4833.4	4862.9
60°	3283.7	3316.9	3541.0	3968.7	4575.3	5133.0	5372.7	5318.3	5113.7	5053.8	5069.4
62.5°	2573.0	2570.2	2847.7	3372.2	4119.0	4983.7	5460.3	5489.8	5316.5	5240.9	5264.9
65°	1667.7	1676.0	1944.3	2509.4	3430.3	4603.9	5479.7	5708.3	5515.6	5401.3	5418.8
66°	1341.3	1366.2	1593.9	2114.8	3079.1	4355.0	5421.6	5772.8	5576.5	5438.2	5446.5
67.5°	990.1	985.5	1172.6	1574.6	2458.7	3882.0	5240.0	5813.4	5645.6	5471.4	5475.1
70°	565.1	564.2	630.6	864.7	1445.5	2733.4	4416.7	5618.9	5785.7	5591.2	5581.1
72.5°	413.0	410.2	419.5	477.5	705.2	1380.1	3046.8	4910.9	5713.8	5571.9	5543.3
75°	346.6	344.8	342.9	350.3	395.5	625.0	1617.0	3532.7	4957.9	5229.8	5200.3
77.5°	283.0	283.0	283.9	282.1	283.9	329.1	670.2	1893.5	3019.2	3370.4	3452.5
80°	221.3	220.3	236.0	229.5	214.8	211.1	296.8	609.4	1002.1	996.6	822.3
82.5°	163.2	152.1	179.8	175.2	158.6	134.6	173.3	260.0	334.6	217.6	161.3
85°	103.3	102.3	127.2	116.2	96.8	63.6	83.0	111.5	138.3	83.9	68.2
87.5°	18.4	17.5	40.6	29.5	29.5	18.4	23.0	30.4	45.2	31.3	23.0
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)