

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: P400689

Luminaire Tested: **TT-D6-840-U-MQ**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-16)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D6-840-U-MQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
4000K, 80 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12526 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 105.2
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: 28.75 FT



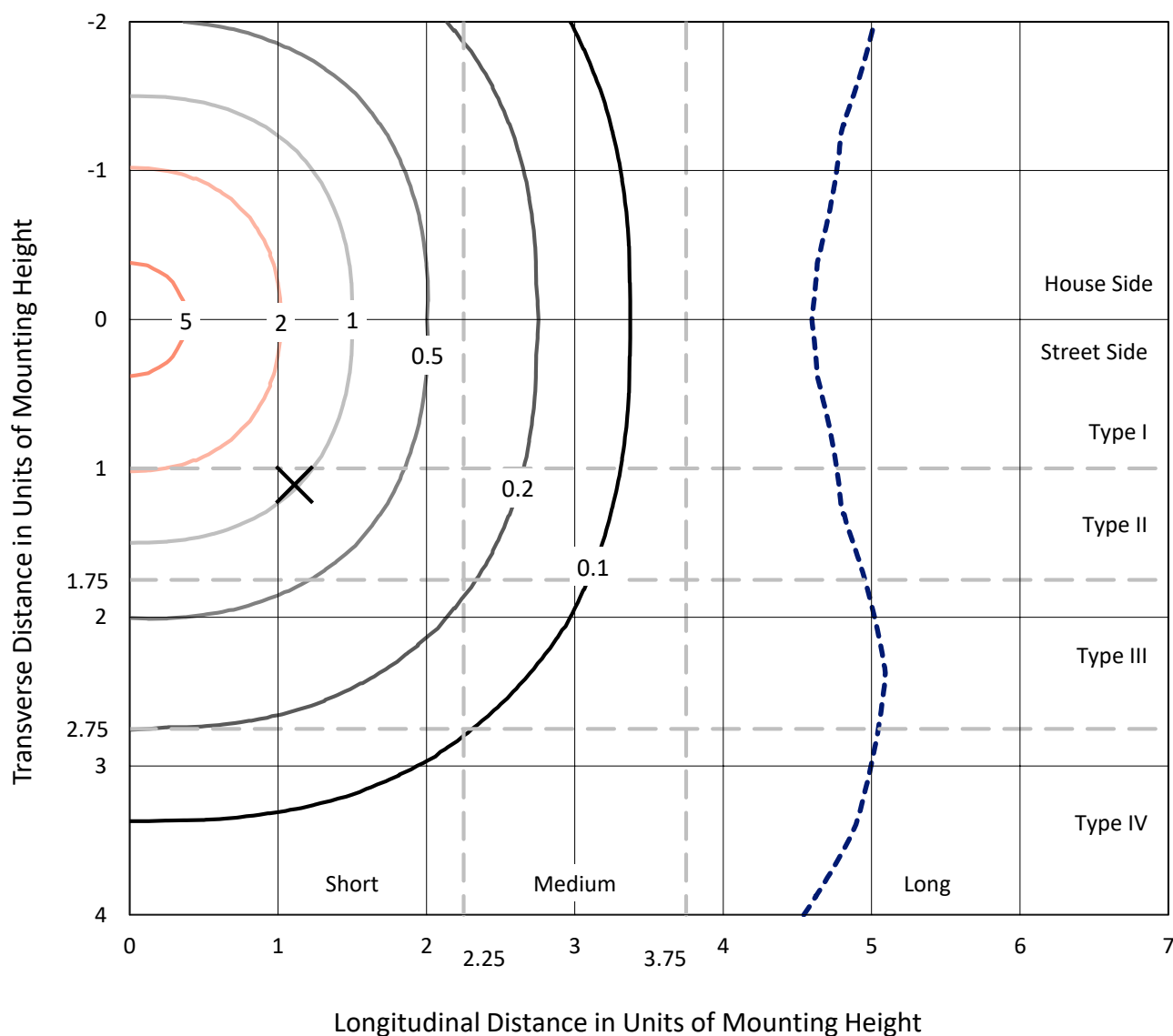
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

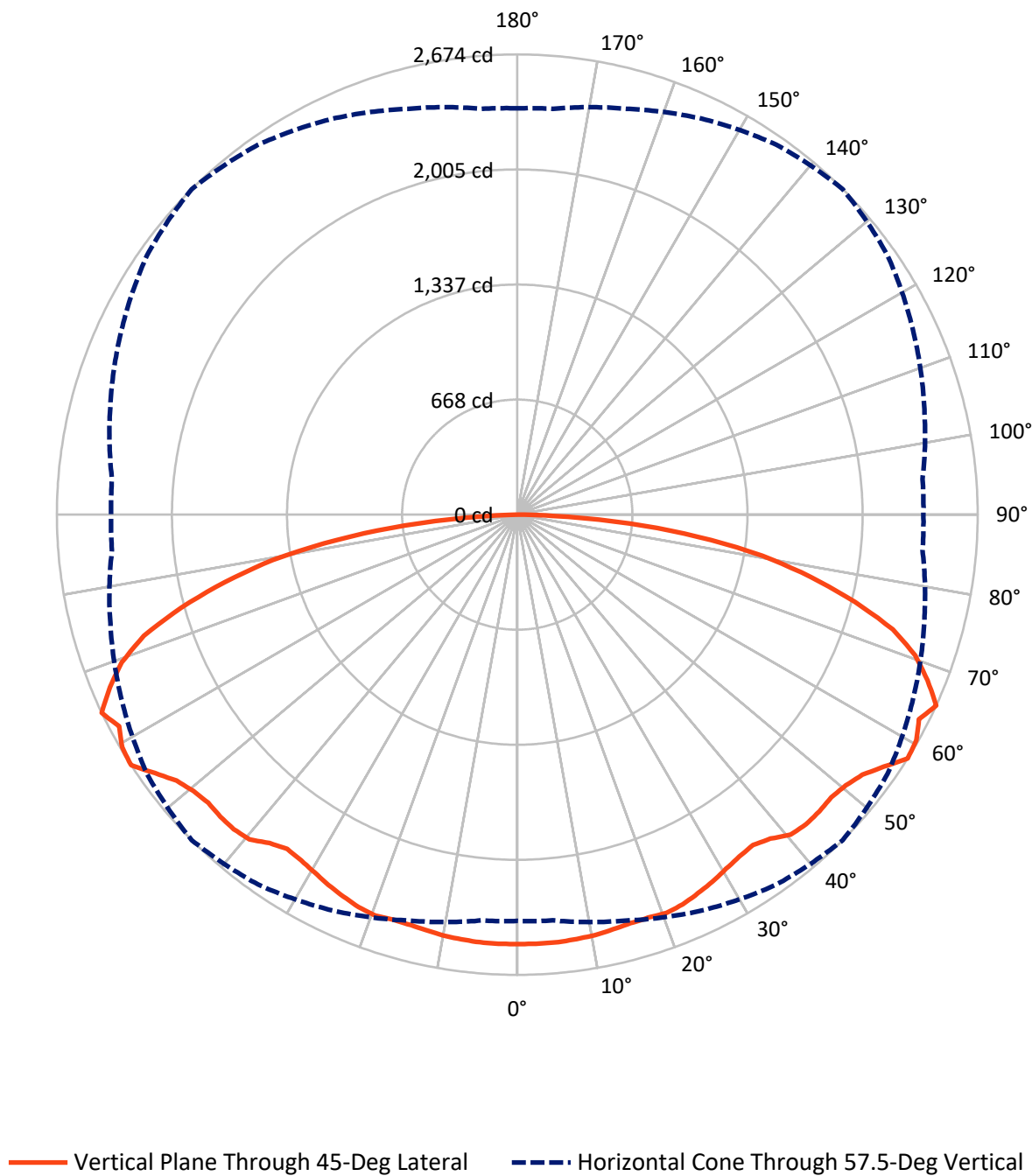


Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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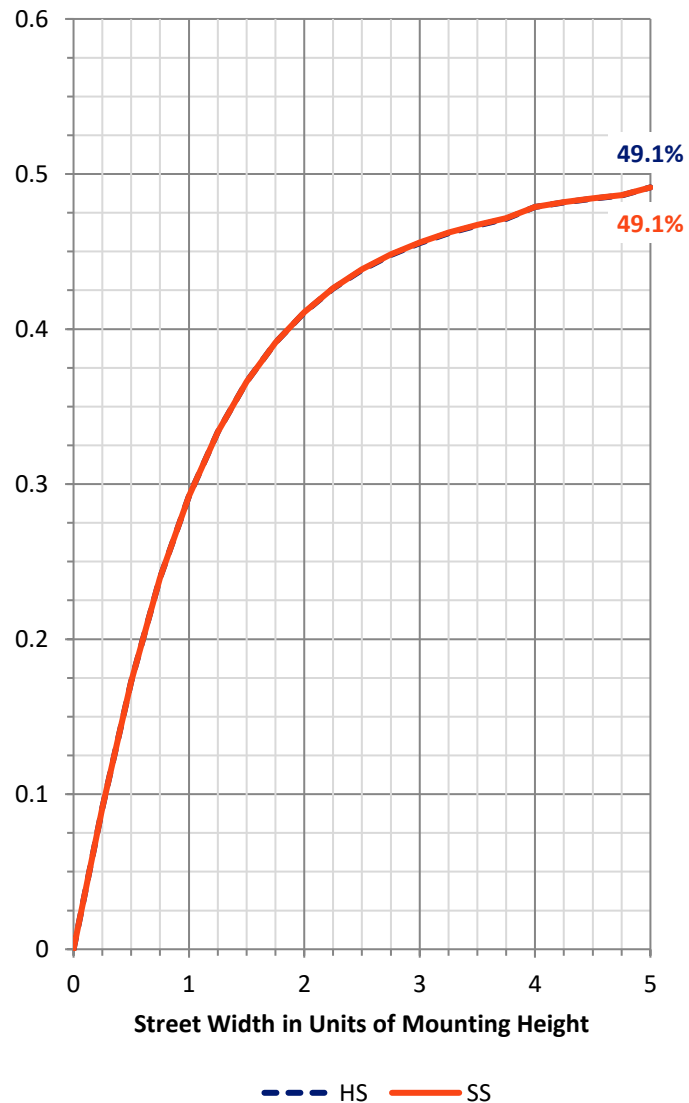
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6263.0	0.0	6263.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6263.0	0.0	6263.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12526.0	0.0	12526.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.7	1.9
10°-20°	699.2	5.6
20°-30°	1123.6	9.0
30°-40°	1483.3	11.8
40°-50°	1855.8	14.8
50°-60°	2207.3	17.6
60°-70°	2394.1	19.1
70°-80°	1905.6	15.2
80°-90°	619.4	4.9
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°	12526.0	100.0
0°-180°	12526.0	100.0

Coefficient of Utilization



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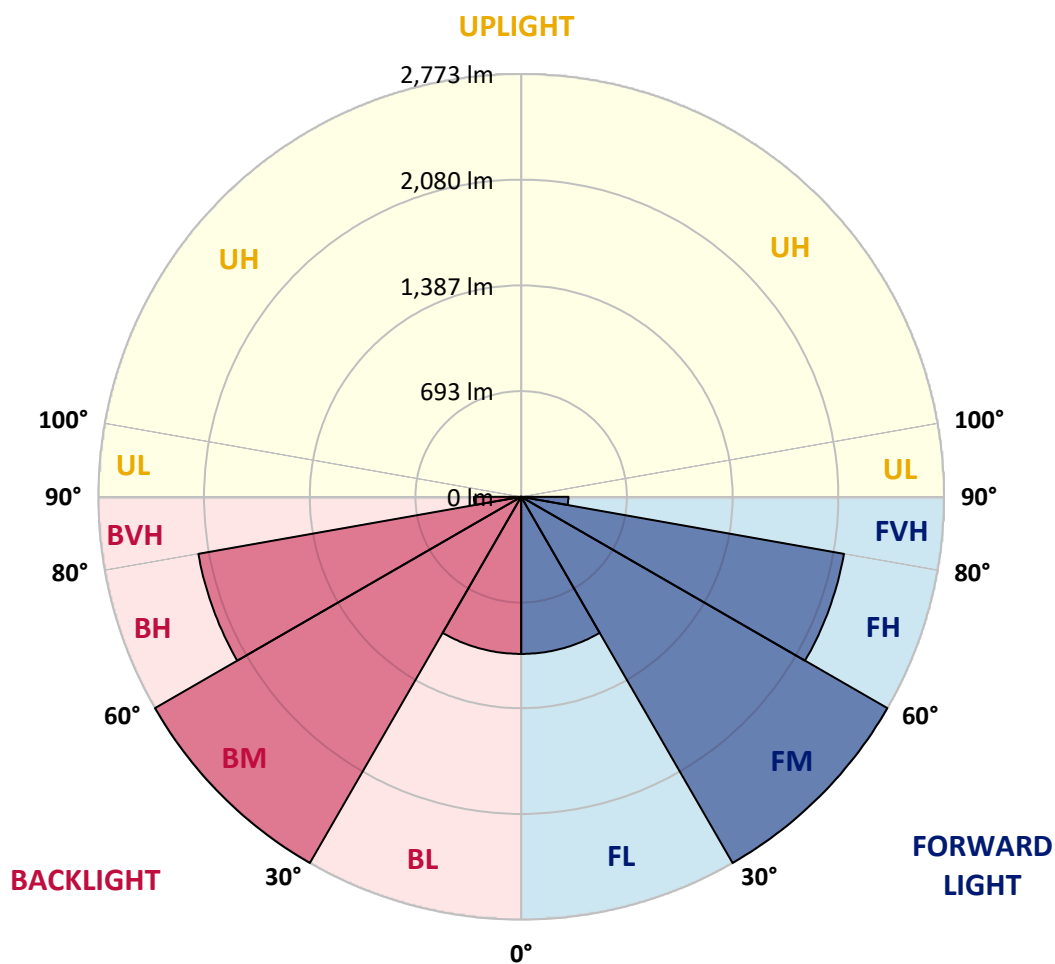
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1030.3	8.2			
FM	(30°-60°)	2773.2	22.1			
FH	(60°-80°)	2149.8	17.2			G2/5000
FVH	(80°-90°)	309.7	2.5			G3/500
BL	(0°-30°)	1030.3	8.2	B3/2500		
BM	(30°-60°)	2773.2	22.1	B3/5000		
BH	(60°-80°)	2149.8	17.2	B3/2500		G2/5000
BVH	(80°-90°)	309.7	2.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2494.8	2494.8	2494.8	2494.8	2494.8	2494.8	2494.8	2494.8	2494.8	2494.8	2494.8
2.5°	2498.5	2496.7	2498.5	2496.7	2496.7	2494.8	2496.7	2496.7	2496.7	2496.7	2496.7
5°	2496.7	2494.8	2494.8	2496.7	2494.8	2494.8	2494.8	2494.8	2494.8	2494.8	2494.8
7.5°	2489.2	2489.2	2491.1	2489.2	2489.2	2489.2	2489.2	2489.2	2489.2	2491.1	2491.1
10°	2483.6	2481.7	2483.6	2483.6	2481.7	2483.6	2481.7	2483.6	2483.6	2483.6	2483.6
12.5°	2476.2	2474.3	2476.2	2476.2	2474.3	2472.4	2474.3	2474.3	2476.2	2476.2	2476.2
15°	2463.1	2463.1	2466.8	2465.0	2465.0	2463.1	2466.8	2465.0	2463.1	2465.0	2465.0
17.5°	2453.8	2453.8	2457.5	2461.3	2461.3	2461.3	2461.3	2459.4	2455.7	2457.5	2453.8
20°	2455.7	2457.5	2459.4	2465.0	2468.7	2470.6	2470.6	2465.0	2459.4	2461.3	2459.4
22.5°	2450.1	2448.2	2450.1	2453.8	2459.4	2459.4	2459.4	2451.9	2450.1	2448.2	2448.2
25°	2427.7	2427.7	2431.4	2435.2	2438.9	2437.0	2438.9	2435.2	2431.4	2427.7	2427.7
27.5°	2401.6	2401.6	2407.2	2410.9	2414.7	2414.7	2412.8	2409.1	2407.2	2403.5	2401.6
30°	2375.5	2375.5	2381.1	2384.9	2390.5	2388.6	2388.6	2383.0	2377.4	2373.7	2373.7
32.5°	2347.6	2345.7	2351.3	2360.6	2368.1	2368.1	2368.1	2356.9	2349.5	2345.7	2343.9
35°	2323.4	2323.4	2330.8	2347.6	2356.9	2356.9	2353.2	2345.7	2329.0	2323.4	2323.4
37.5°	2315.9	2321.5	2342.0	2366.2	2384.9	2388.6	2383.0	2362.5	2340.1	2323.4	2317.8
40°	2340.1	2345.7	2371.8	2410.9	2438.9	2444.5	2438.9	2409.1	2370.0	2343.9	2342.0
42.5°	2343.9	2347.6	2379.3	2424.0	2450.1	2459.4	2450.1	2420.3	2377.4	2345.7	2343.9
45°	2330.8	2332.7	2370.0	2416.5	2448.2	2459.4	2448.2	2412.8	2368.1	2332.7	2330.8
47.5°	2314.1	2317.8	2358.8	2407.2	2446.3	2453.8	2444.5	2405.4	2355.1	2319.7	2314.1
50°	2301.0	2312.2	2349.5	2403.5	2450.1	2472.4	2450.1	2397.9	2347.6	2308.5	2301.0
52.5°	2308.5	2312.2	2360.6	2437.0	2500.4	2509.7	2498.5	2437.0	2356.9	2312.2	2306.6
55°	2330.8	2347.6	2399.8	2509.7	2567.5	2584.2	2560.0	2506.0	2401.6	2347.6	2330.8
57.5°	2360.6	2366.2	2440.8	2537.6	2623.4	2673.7	2625.2	2535.8	2446.3	2362.5	2358.8
60°	2336.4	2319.7	2412.8	2526.5	2642.0	2662.5	2634.5	2528.3	2409.1	2317.8	2334.6
62.5°	2271.2	2282.4	2358.8	2515.3	2595.4	2617.8	2588.0	2515.3	2355.1	2291.7	2265.6
65°	2219.0	2286.1	2370.0	2481.7	2610.3	2673.7	2612.2	2478.0	2373.7	2274.9	2213.5
67.5°	2146.4	2159.4	2284.3	2422.1	2537.6	2569.3	2535.8	2424.0	2273.1	2150.1	2159.4
70°	2023.4	2004.8	2131.5	2291.7	2401.6	2451.9	2405.4	2284.3	2125.9	2001.1	2017.8
72.5°	1820.3	1831.5	1948.9	2118.4	2232.1	2280.5	2233.9	2105.4	1945.2	1842.7	1831.5
75°	1607.9	1621.0	1734.6	1889.3	2004.8	2025.3	2012.2	1879.9	1738.3	1619.1	1607.9
77.5°	1365.7	1378.7	1471.9	1641.5	1710.4	1742.1	1714.1	1650.8	1468.2	1376.9	1362.0
80°	1097.4	1093.7	1175.7	1321.0	1406.7	1442.1	1406.7	1324.7	1171.9	1101.1	1076.9
82.5°	784.4	788.1	864.5	965.1	1047.1	1058.3	1041.5	974.4	857.1	797.4	763.9
85°	436.0	452.8	508.6	583.2	637.2	655.8	627.9	564.5	506.8	460.2	445.3
87.5°	104.3	113.7	132.3	167.7	188.2	206.8	188.2	175.1	124.8	113.7	104.3
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)