

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: E366-78

Luminaire Tested: **TRD-100-HPS-XX-5F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: E366-78
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TRD-100-HPS-XX-5F
Description: Architectural Decorative Post Top - TYPE V DISTRIBUTION
Light Source: 100W HPS CL ED-23.5
Ballast/Driver: -

Summary

Lumens per Lamp: 9500 (1 lamp)
Luminaire Lumens: 7029.6 lumens
Efficiency: 74.0%
Efficacy: 54.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 0.92' x H: 1')
IES Classification: Type V - Short - Cutoff
BUG Rating: B3 - U3 - G1

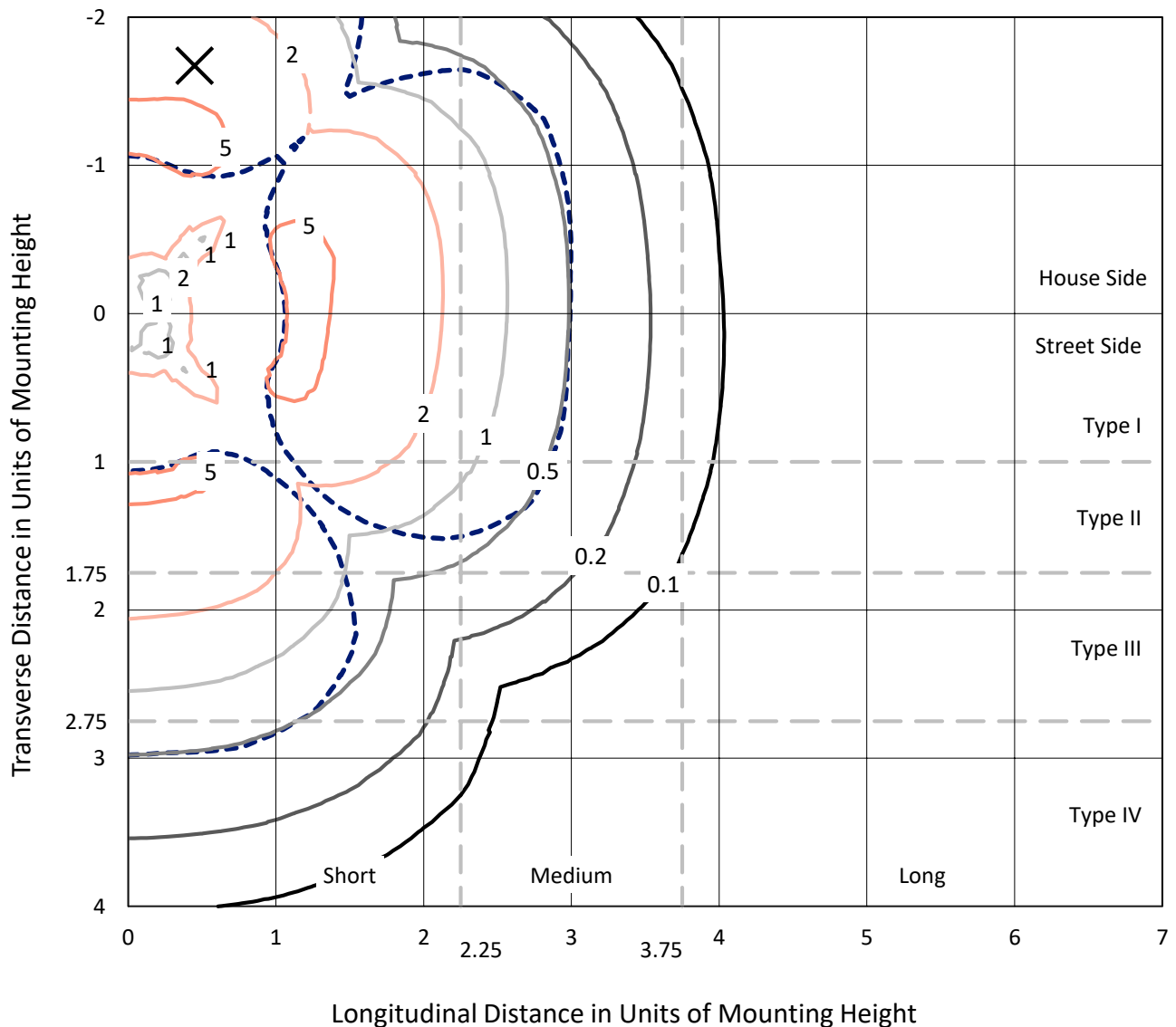
Input Watts (W): 130
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

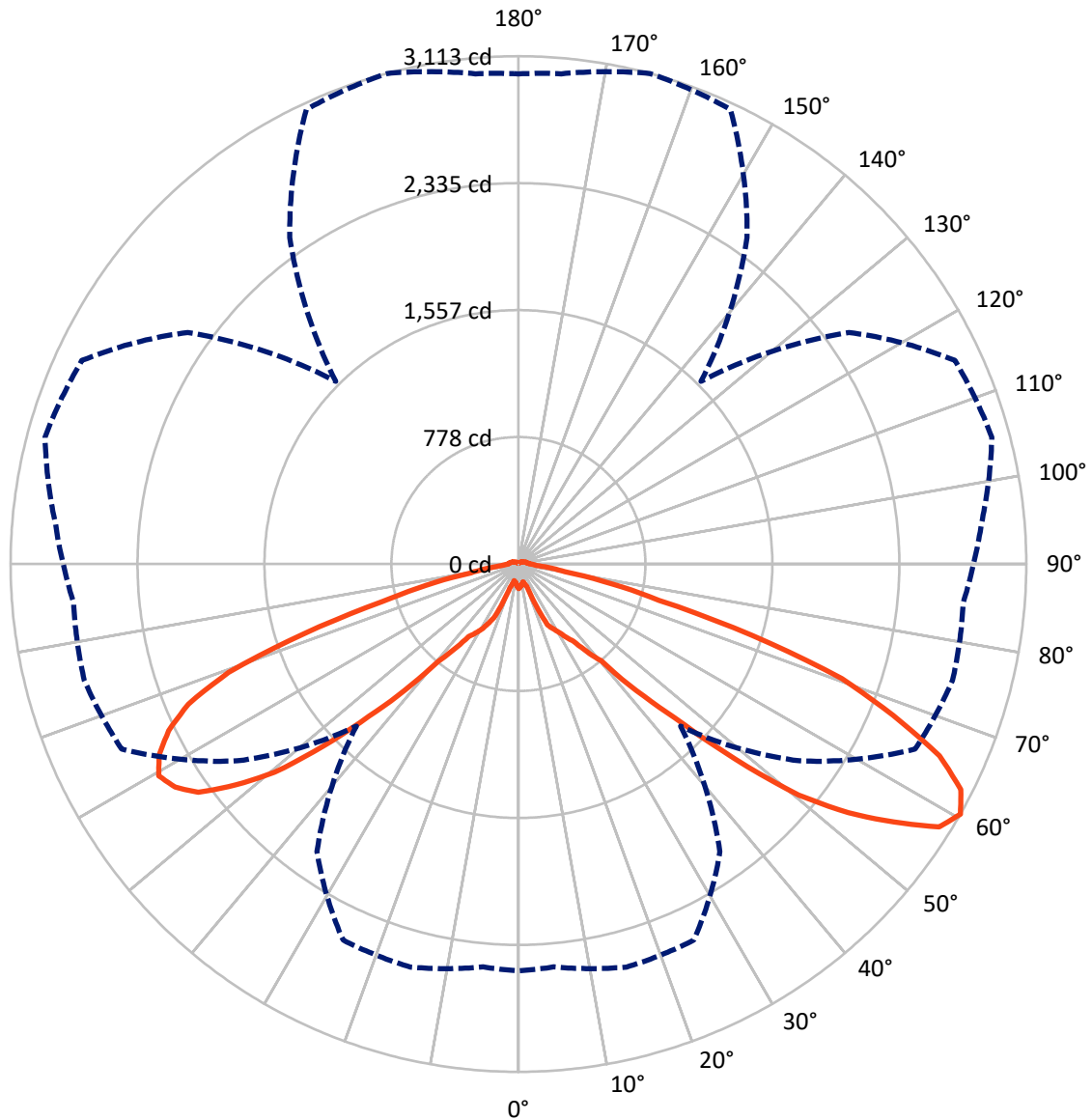
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 165-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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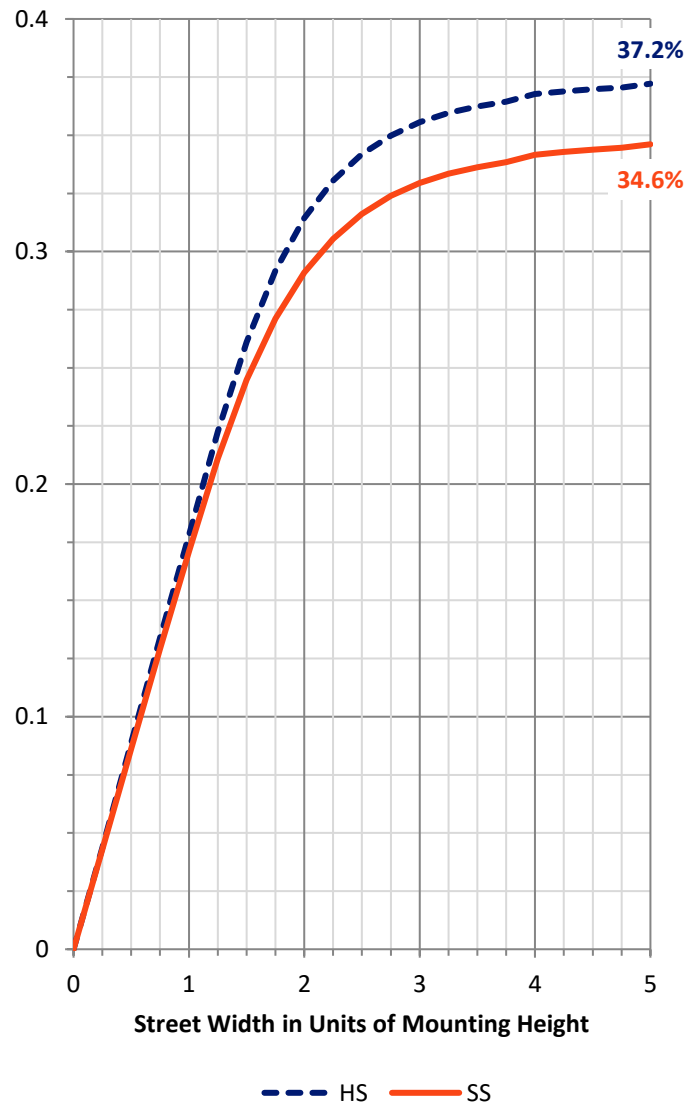
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3550.5	82.9	3633.3
	% Lamp	37.4	0.9	38.2
Street Side	Lumens	3313.0	83.3	3396.2
	% Lamp	34.9	0.9	35.7
Total	Lumens	6863.4	166.2	7029.6
	% Lamp	72.2	1.7	74.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	11.8	0.2	0.1
10°-20°	30.0	0.4	0.3
20°-30°	136.2	1.9	1.4
30°-40°	326.4	4.6	3.4
40°-50°	983.4	14.0	10.4
50°-60°	2052.5	29.2	21.6
60°-70°	2252.3	32.0	23.7
70°-80°	931.3	13.2	9.8
80°-90°	139.6	2.0	1.5
90°-100°	57.5	0.8	0.6
100°-110°	43.2	0.6	0.5
110°-120°	29.3	0.4	0.3
120°-130°	18.1	0.3	0.2
130°-140°	11.0	0.2	0.1
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	6863.4	97.6	72.2
0°-180°	7029.6	100.0	74.0



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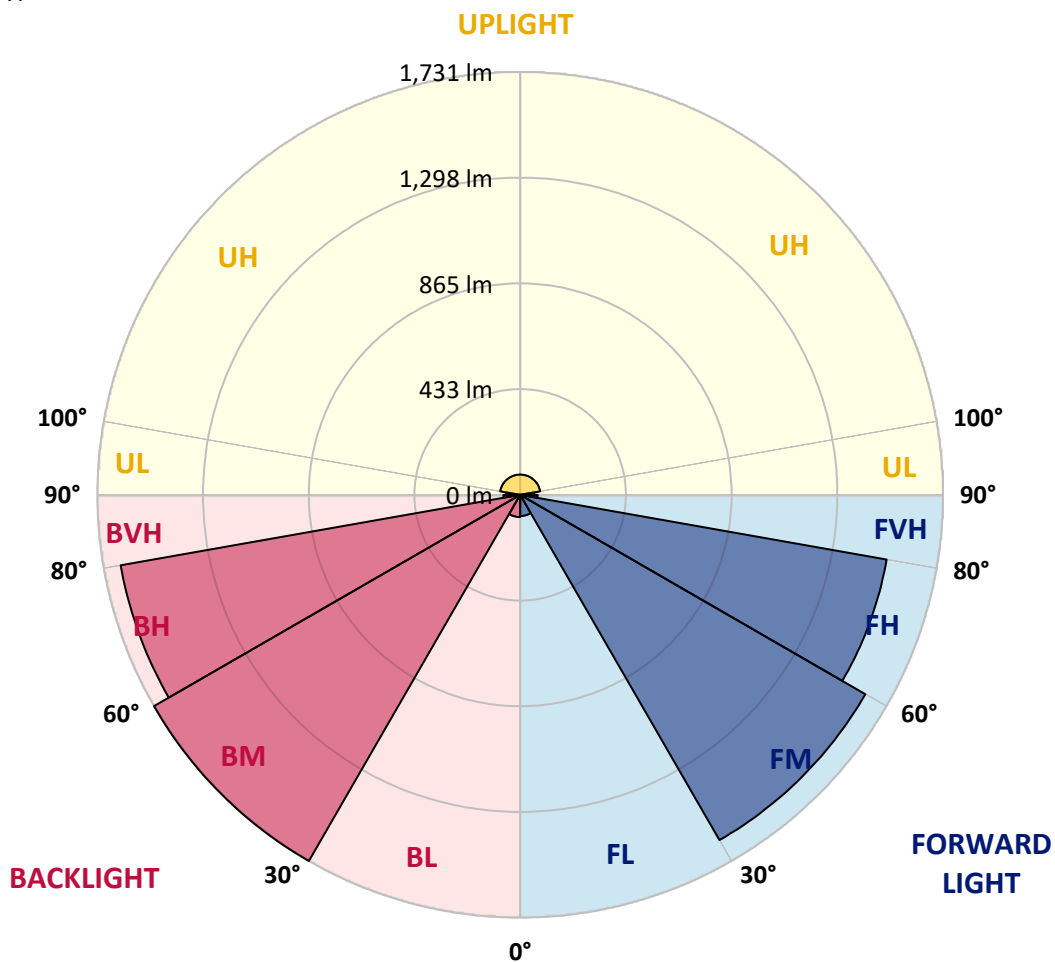
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	86.9	0.9			
FM (30°-60°)	1631.7	17.2			
FH (60°-80°)	1523.1	16.0			G1/1800
FVH (80°-90°)	71.2	0.7			G1/100
BL (0°-30°)	91.0	1.0	B0/110		
BM (30°-60°)	1730.6	18.2	B2/2500		
BH (60°-80°)	1660.4	17.5	B3/2500		G1/1800
BVH (80°-90°)	68.4	0.7			G1/100
UL (90°-100°)	57.5	0.6		U3/500	
UH (100°-180°)	82.9	0.9		U3/500	
Trapped Light	2470.4	26.0			

BUG Rating: B3-U3-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8
5°	132.4	131.8	129.4	127.1	126.5	128.9	128.9	132.4	133.0	132.4	131.2
10°	117.0	115.8	111.6	103.3	102.1	94.4	92.0	94.4	98.6	102.1	102.7
15°	111.0	109.9	105.7	102.1	91.4	81.9	81.4	96.2	103.9	111.6	111.6
20°	197.7	188.2	152.0	95.6	83.7	71.8	79.0	97.4	118.8	138.4	141.9
25°	369.9	371.1	362.2	325.4	275.5	100.9	248.2	326.6	373.5	355.7	363.4
30°	460.2	459.6	461.4	434.1	315.9	159.7	388.9	425.8	447.1	488.7	491.1
35°	545.7	543.9	539.8	549.9	451.9	245.2	345.6	584.9	545.1	529.1	538.0
40°	774.3	777.3	774.3	783.2	709.6	403.2	558.8	824.2	769.0	763.0	757.1
45°	1318.2	1323.6	1309.3	1365.1	1216.7	768.4	1097.9	1426.9	1298.0	1279.6	1282.0
50°	1985.7	1988.0	1966.1	2023.1	1665.6	1100.3	1590.8	2112.7	2043.9	2054.0	2056.9
52.5°	2206.0	2203.6	2198.8	2235.7	1858.6	1219.1	1806.9	2334.2	2307.5	2304.5	2311.1
55°	2391.8	2389.5	2410.8	2384.7	1980.9	1314.7	1935.2	2483.3	2518.9	2517.7	2542.7
57.5°	2459.5	2450.6	2510.6	2503.5	2075.3	1369.9	2023.7	2603.8	2684.6	2670.3	2717.2
60°	2494.0	2479.1	2558.1	2543.8	2152.5	1404.9	2103.8	2683.4	2755.2	2736.8	2790.3
62.5°	2442.3	2419.7	2494.6	2504.6	2119.3	1376.4	2096.7	2659.0	2710.1	2711.3	2755.8
65°	2362.1	2337.2	2375.8	2359.2	2013.0	1272.5	1992.8	2482.7	2555.1	2553.9	2583.0
67.5°	2191.7	2172.7	2198.8	2082.5	1786.2	1083.7	1768.3	2189.3	2269.5	2248.1	2274.8
70°	1831.3	1821.8	1896.6	1803.4	1502.9	903.8	1462.5	1871.1	1904.3	1840.8	1856.2
75°	839.6	839.6	866.4	859.2	755.3	442.4	696.5	888.9	884.8	839.0	826.0
80°	286.2	285.6	294.5	295.7	257.7	175.8	229.8	311.7	309.4	313.5	303.4
85°	94.4	94.4	102.1	95.6	87.9	63.5	83.1	105.1	111.6	112.8	109.3
90°	61.8	61.8	64.1	60.0	54.6	45.7	51.7	60.6	62.9	63.5	64.1
95°	54.6	54.6	57.6	54.0	48.1	40.4	46.3	58.2	60.0	55.8	55.2
105°	42.8	42.2	43.9	44.5	39.2	30.9	36.2	45.7	44.5	44.5	43.9
115°	33.3	32.7	30.9	30.9	25.5	21.4	25.5	30.9	32.7	31.5	32.1
125°	22.6	22.0	19.6	18.4	16.0	15.4	16.0	19.0	20.8	23.2	21.4
135°	15.4	14.8	13.7	12.5	12.5	13.7	13.1	13.7	14.8	14.8	15.4
180°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8
5°	131.8	134.8	131.8	128.3	128.3	131.2	134.2	137.8	138.9	138.9
10°	103.9	100.9	99.8	96.8	93.2	99.2	111.6	123.5	132.4	133.0
15°	111.6	108.1	99.8	88.5	83.1	87.3	105.7	114.0	123.5	124.1
20°	137.2	118.8	96.2	85.5	73.0	84.3	100.9	144.9	219.1	222.1
25°	368.7	366.4	363.4	289.8	90.3	286.2	349.7	413.9	396.1	396.7
30°	492.3	480.4	463.2	345.0	121.7	348.0	457.2	482.2	503.5	505.3
35°	543.3	550.5	557.6	408.5	155.6	299.9	568.3	581.3	580.1	579.0
40°	752.9	752.9	764.2	675.7	291.0	696.5	792.1	779.7	775.5	774.3
45°	1283.8	1299.8	1340.2	1192.4	684.7	1127.0	1403.1	1343.8	1262.4	1256.5
50°	2058.1	2119.3	2074.1	1723.8	1043.9	1746.4	2200.0	2226.2	2085.4	2079.5
52.5°	2319.4	2418.5	2367.5	1961.9	1215.5	1988.6	2498.7	2533.2	2408.5	2402.5
55°	2573.5	2682.8	2598.5	2164.4	1359.2	2165.6	2739.8	2792.6	2705.9	2698.8
57.5°	2769.5	2900.7	2818.8	2325.9	1501.1	2336.0	2964.8	3041.4	2926.2	2916.2
60°	2849.1	3004.6	2952.4	2474.4	1583.1	2442.9	3074.7	3113.3	3016.5	3004.6
62.5°	2806.9	2953.6	2941.1	2489.2	1582.5	2420.9	3000.5	3044.4	2958.3	2948.2
65°	2622.8	2774.2	2771.9	2308.7	1463.1	2241.0	2755.8	2836.6	2736.2	2728.5
67.5°	2314.6	2458.9	2454.2	2020.7	1220.3	1918.6	2344.9	2476.7	2441.7	2437.0
70°	1881.8	2006.5	2078.9	1675.7	963.7	1552.8	1900.8	2103.8	2017.1	2011.8
75°	817.7	851.5	849.1	732.7	342.6	648.4	839.0	889.5	848.5	849.1
80°	295.1	308.2	263.1	238.1	108.7	206.0	275.5	286.8	270.2	270.2
85°	106.9	107.5	98.6	83.1	59.4	83.7	103.3	109.3	105.1	105.1
90°	64.7	66.5	60.0	54.0	43.9	51.1	65.9	71.8	72.4	73.0
95°	54.6	60.0	56.4	52.3	38.0	43.9	51.1	55.2	52.8	52.8
105°	43.3	43.9	43.9	39.8	28.5	36.8	43.9	45.1	42.8	42.8
115°	33.3	32.1	30.9	26.1	20.2	25.5	30.9	31.5	31.5	31.5
125°	20.8	19.6	19.6	17.2	16.0	16.6	17.8	19.6	22.6	22.6
135°	15.4	14.3	13.1	13.1	13.1	13.1	13.1	13.7	14.3	14.3
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)