

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: P199918

Luminaire Tested: **GPC-AF-02-LED-E1-5WQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-02-LED-E1-5WQ-7030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10224.5 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

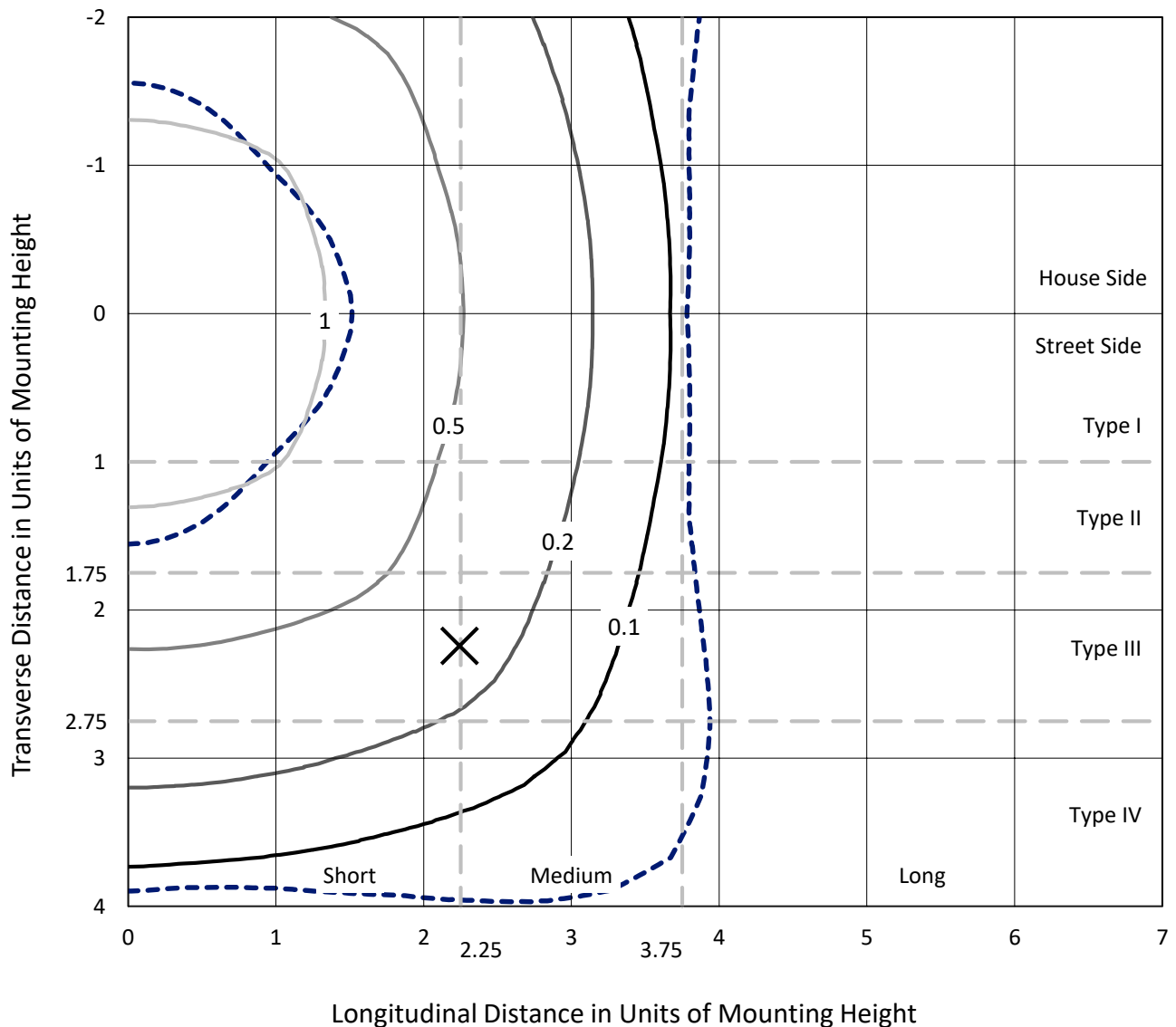
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

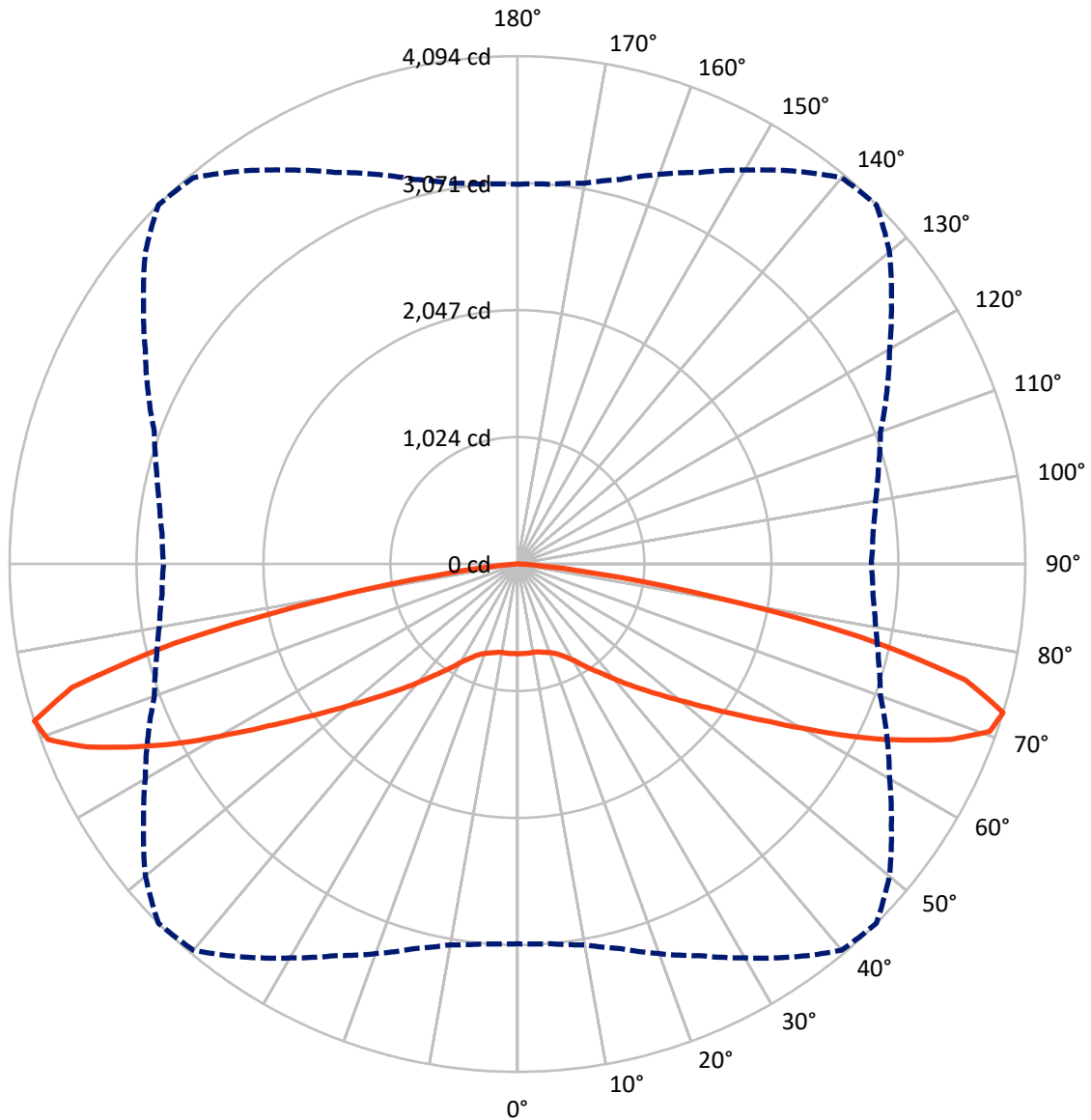
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5112.2	0.0	5112.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5112.2	0.0	5112.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	10224.5	0.0	10224.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	0.7
10°-20°	210.0	2.1
20°-30°	383.7	3.8
30°-40°	661.6	6.5
40°-50°	1131.0	11.1
50°-60°	1833.2	17.9
60°-70°	3041.2	29.7
70°-80°	2678.6	26.2
80°-90°	216.0	2.1
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°	10224.5	100.0
0°-180°	10224.5	100.0



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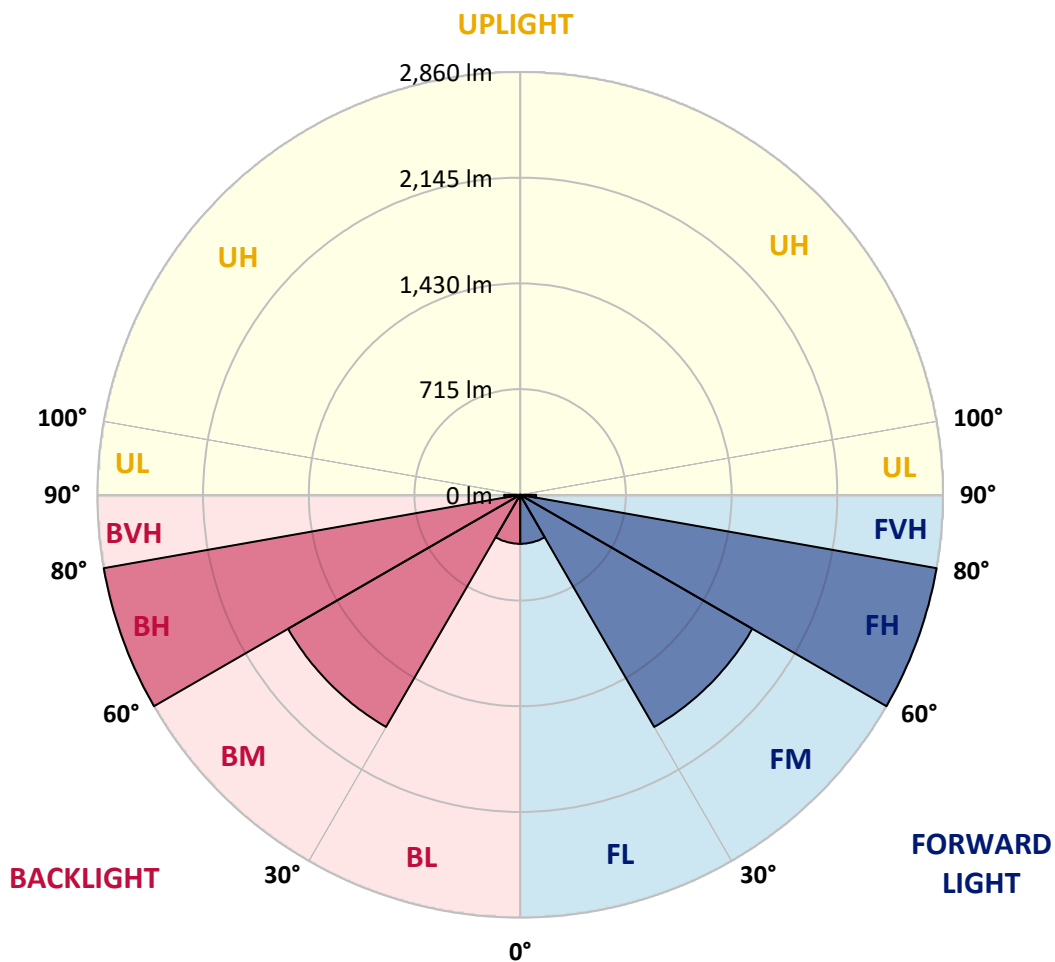
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.4	3.2			
FM (30°-60°)	1812.9	17.7			
FH (60°-80°)	2859.9	28.0			G2/5000
FVH (80°-90°)	108.0	1.1			G2/225
BL (0°-30°)	331.4	3.2	B1/500		
BM (30°-60°)	1812.9	17.7	B2/2500		
BH (60°-80°)	2859.9	28.0	B4/5000		G2/5000
BVH (80°-90°)	108.0	1.1			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1
2.5°	724.1	724.5	725.1	724.5	724.5	724.1	723.7	724.1	723.7	722.6	723.1
5°	726.3	727.3	727.3	726.3	726.9	726.3	725.5	725.9	725.1	723.7	723.7
7.5°	729.2	729.7	729.7	728.8	729.2	728.3	727.3	726.9	725.9	724.1	722.6
10°	733.4	733.9	733.4	732.5	732.5	731.1	728.8	727.7	725.9	723.1	721.6
12.5°	738.1	738.6	738.1	737.2	736.7	734.3	732.5	731.1	729.7	727.3	725.1
15°	744.7	745.5	744.7	742.9	741.5	739.5	738.6	739.0	739.5	737.6	735.4
17.5°	756.8	757.3	756.0	751.7	749.8	748.0	748.0	748.9	750.3	749.4	747.0
20°	779.3	778.0	774.6	769.5	767.2	763.9	763.4	763.9	763.9	763.4	761.5
22.5°	807.5	806.6	802.4	795.9	792.5	790.6	787.9	785.5	785.0	783.6	781.7
25°	841.3	840.9	835.7	830.1	827.6	825.4	823.0	819.7	816.9	813.7	811.8
27.5°	884.5	882.6	875.0	872.2	868.9	867.5	864.2	860.5	858.1	854.0	851.5
30°	931.8	931.8	925.7	924.8	924.8	921.5	917.8	911.1	907.0	902.7	901.3
32.5°	979.2	979.6	973.5	975.3	976.8	979.2	980.0	977.8	974.9	974.5	971.7
35°	1047.6	1045.7	1039.6	1041.0	1040.5	1040.1	1040.1	1045.3	1046.2	1047.1	1041.6
37.5°	1132.5	1132.5	1126.4	1126.4	1123.6	1120.8	1117.0	1120.4	1125.5	1126.9	1123.0
40°	1229.6	1232.9	1225.4	1224.9	1225.8	1216.9	1212.7	1217.8	1221.1	1226.8	1222.5
42.5°	1344.0	1341.7	1334.2	1333.2	1328.0	1325.2	1321.5	1325.8	1330.9	1334.6	1336.0
45°	1453.7	1451.8	1443.5	1443.5	1438.3	1435.8	1437.8	1444.9	1447.1	1452.3	1457.5
47.5°	1562.1	1559.6	1554.1	1556.4	1557.0	1561.1	1567.3	1573.8	1580.3	1587.4	1589.7
50°	1672.8	1673.2	1667.1	1672.8	1679.8	1691.5	1707.9	1718.6	1732.3	1741.1	1744.0
52.5°	1773.6	1775.5	1782.0	1795.1	1809.3	1832.2	1860.3	1886.6	1909.1	1924.0	1923.2
55°	1894.5	1897.4	1913.3	1935.8	1958.8	1993.4	2035.2	2081.6	2119.2	2140.7	2127.2
57.5°	2049.2	2055.3	2073.2	2103.7	2137.8	2182.9	2240.2	2310.1	2368.2	2397.2	2375.2
60°	2261.7	2265.5	2287.1	2320.7	2362.0	2417.9	2494.3	2588.2	2670.2	2708.6	2683.3
62.5°	2541.7	2548.7	2566.1	2600.3	2642.6	2705.8	2799.1	2916.3	3018.7	3072.1	3014.9
65°	2876.0	2898.5	2913.1	2947.9	2987.1	3054.3	3151.8	3277.4	3387.1	3422.3	3356.2
67.5°	3207.1	3226.9	3252.1	3292.0	3331.9	3407.4	3497.8	3619.8	3740.3	3772.1	3669.5
70°	3352.1	3363.3	3402.7	3457.1	3533.6	3622.6	3727.2	3864.1	4013.2	4039.6	3909.1
72.5°	3061.8	3073.0	3117.0	3209.5	3342.7	3484.3	3666.7	3867.9	4064.8	4094.4	3914.8
75°	2315.6	2297.4	2362.5	2485.0	2664.5	2861.9	3117.0	3405.5	3690.1	3727.2	3512.9
77.5°	1196.7	1194.4	1243.7	1395.6	1609.9	1834.5	2115.4	2441.3	2719.9	2832.4	2658.0
80°	337.2	340.9	364.4	439.9	565.1	727.3	946.8	1252.1	1480.0	1596.3	1498.7
82.5°	132.2	142.6	151.5	165.5	181.9	205.9	274.8	408.9	548.7	655.5	536.9
85°	47.3	50.7	71.8	84.9	86.4	91.0	103.7	121.0	145.9	173.9	143.0
87.5°	17.8	19.6	23.0	38.0	37.4	34.2	41.7	43.6	32.8	30.0	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1
2.5°	722.2	722.6	722.6	723.1	723.7	723.7	724.5	724.5
5°	722.6	722.6	721.6	722.2	721.6	721.6	722.2	722.2
7.5°	721.6	721.2	720.3	719.8	718.9	718.9	718.9	718.9
10°	720.3	719.8	718.9	718.4	718.0	718.0	718.0	718.0
12.5°	724.1	722.6	721.6	721.2	721.2	721.2	721.2	721.2
15°	733.9	730.6	728.3	728.3	728.8	729.7	729.7	730.6
17.5°	746.1	742.3	740.0	738.1	739.0	740.4	741.5	742.3
20°	760.7	758.8	755.4	753.6	753.6	755.4	756.4	756.8
22.5°	780.7	779.3	778.0	775.6	775.6	776.7	778.5	778.5
25°	810.8	809.8	808.9	807.1	806.6	806.6	807.5	808.4
27.5°	848.3	848.8	847.9	847.5	846.0	845.5	846.9	846.4
30°	898.5	900.9	903.1	901.3	898.9	897.6	896.2	894.3
32.5°	966.5	963.6	961.8	958.5	954.3	950.5	947.8	944.4
35°	1030.8	1026.1	1024.2	1027.0	1026.5	1024.2	1020.9	1018.1
37.5°	1109.5	1108.6	1109.5	1114.7	1113.8	1116.1	1109.5	1109.1
40°	1209.0	1209.8	1216.5	1222.5	1225.8	1229.0	1225.4	1221.6
42.5°	1324.3	1323.7	1326.2	1334.6	1340.3	1344.0	1336.0	1335.0
45°	1446.3	1443.0	1444.9	1451.8	1457.5	1461.7	1452.8	1452.8
47.5°	1580.3	1574.8	1568.6	1576.6	1579.9	1582.7	1575.6	1573.4
50°	1729.9	1718.2	1705.1	1708.4	1708.4	1707.4	1698.6	1698.0
52.5°	1901.5	1880.1	1856.1	1847.1	1842.0	1836.4	1821.0	1813.3
55°	2099.0	2066.6	2029.2	2006.1	1994.0	1978.4	1952.7	1945.7
57.5°	2329.7	2279.0	2214.3	2186.3	2159.1	2133.8	2105.1	2097.1
60°	2603.1	2528.6	2442.7	2390.7	2361.1	2336.7	2307.2	2305.8
62.5°	2907.9	2790.3	2693.1	2646.3	2624.7	2603.1	2575.0	2578.7
65°	3217.9	3095.0	3004.1	2966.1	2945.9	2928.1	2900.0	2904.2
67.5°	3523.6	3410.6	3310.8	3271.9	3249.4	3226.9	3201.6	3205.6
70°	3743.1	3603.0	3490.4	3404.1	3350.1	3289.1	3249.8	3240.0
72.5°	3680.3	3464.1	3285.4	3114.2	3013.9	2932.3	2877.1	2853.1
75°	3185.1	2889.7	2659.8	2449.8	2331.6	2235.5	2165.6	2122.1
77.5°	2365.4	2033.4	1761.8	1519.9	1328.5	1200.0	1109.5	1050.8
80°	1294.7	984.8	719.8	506.0	371.9	308.9	272.9	255.5
82.5°	403.2	260.2	191.7	165.5	153.8	147.3	136.5	119.1
85°	128.5	112.5	104.6	99.9	95.2	83.0	57.3	52.0
87.5°	49.7	51.2	50.7	47.8	48.7	35.2	28.2	24.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)