

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: P200238

Luminaire Tested: **GPC-AF-02-LED-E1-5WQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200238
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-7050-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 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: 10572 lumens
Efficiency: N/A
Efficacy: 122.9 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

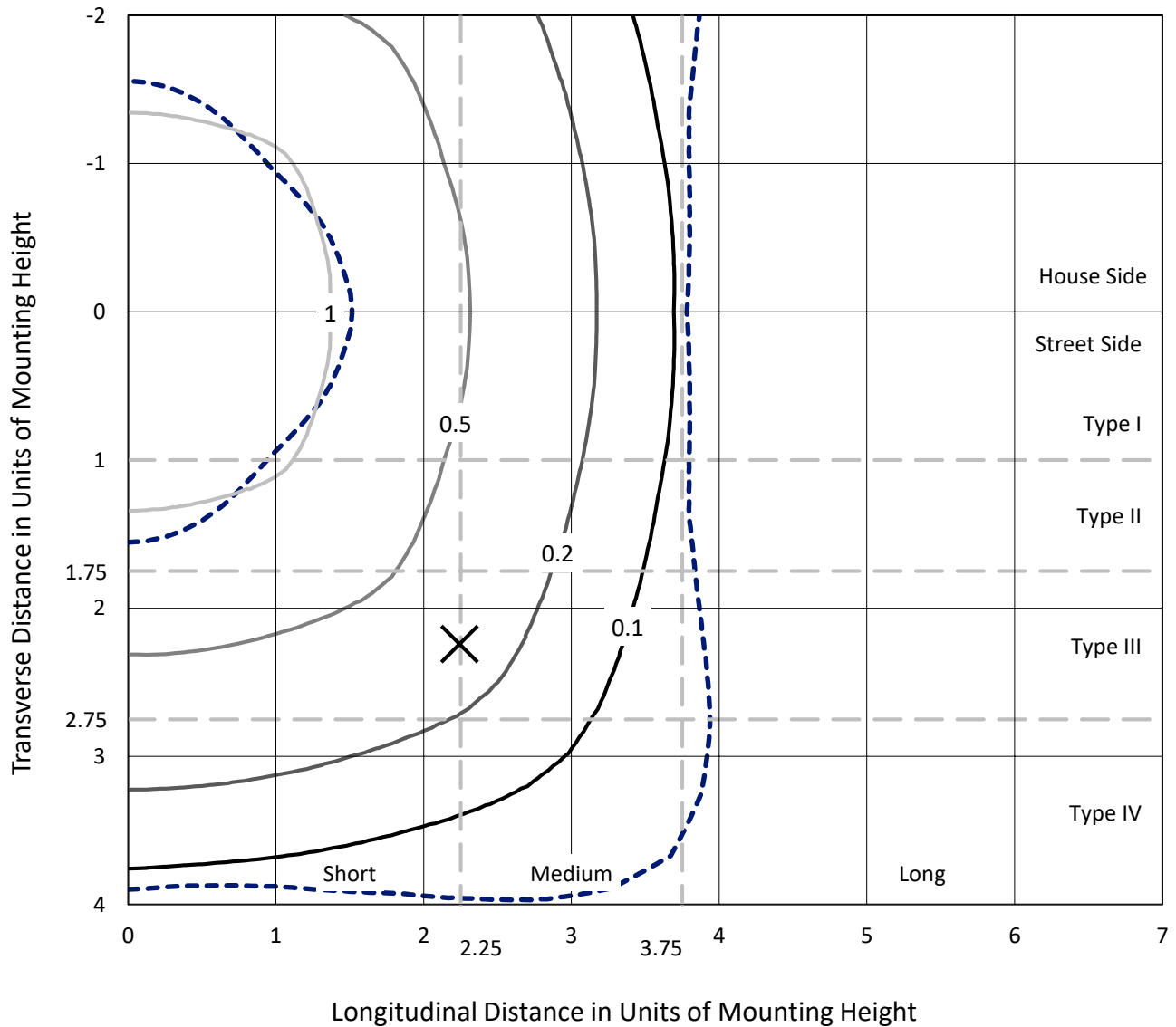
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

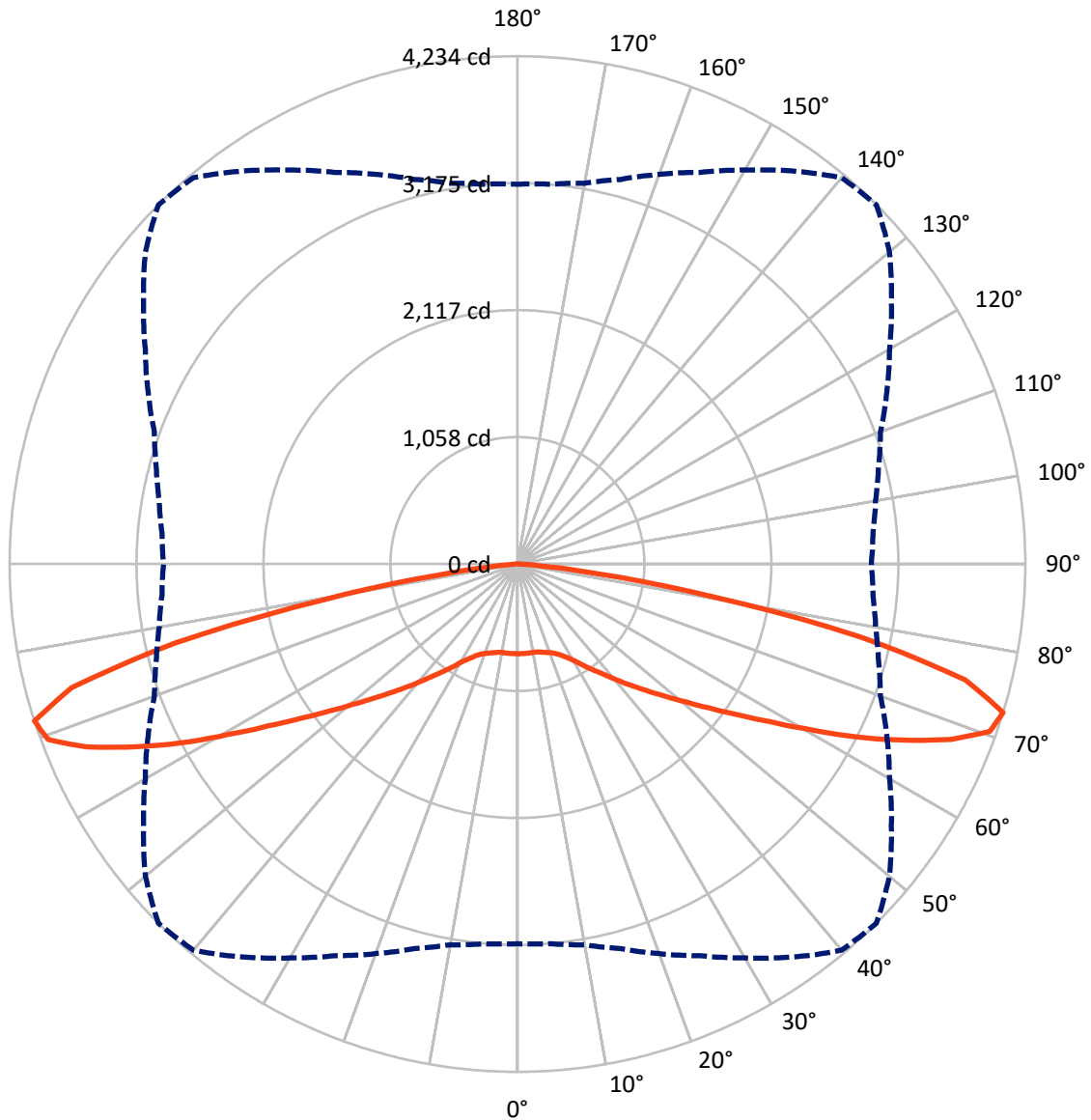
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.9 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	5286.0	0.0	5286.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5286.0	0.0	5286.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10572.0	0.0	10572.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	0.7
10°-20°	217.1	2.1
20°-30°	396.8	3.8
30°-40°	684.1	6.5
40°-50°	1169.4	11.1
50°-60°	1895.5	17.9
60°-70°	3144.6	29.7
70°-80°	2769.7	26.2
80°-90°	223.3	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°	10572.0	100.0
0°-180°	10572.0	100.0



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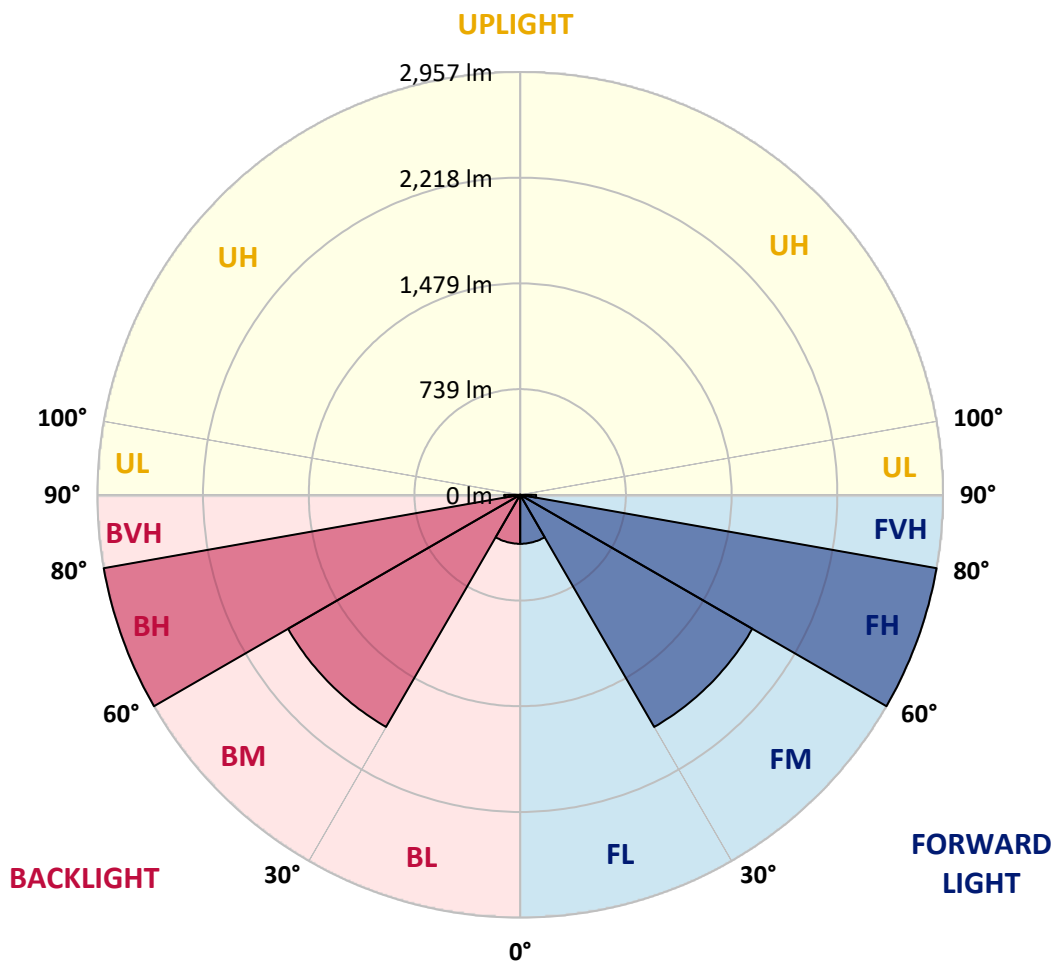
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	342.7	3.2			
FM (30°-60°)	1874.5	17.7			
FH (60°-80°)	2957.1	28.0			G2/5000
FVH (80°-90°)	111.7	1.1			G2/225
BL (0°-30°)	342.7	3.2	B1/500		
BM (30°-60°)	1874.5	17.7	B2/2500		
BH (60°-80°)	2957.1	28.0	B4/5000		G2/5000
BVH (80°-90°)	111.7	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°	748.7	748.7	748.7	748.7	748.7	748.7	748.7	748.7	748.7	748.7	748.7
2.5°	748.7	749.1	749.6	749.1	749.1	748.7	748.2	748.7	748.2	747.2	747.7
5°	751.1	752.1	752.1	751.1	751.6	751.1	750.1	750.6	749.6	748.2	748.2
7.5°	754.0	754.5	754.5	753.5	754.0	753.0	752.1	751.6	750.6	748.7	747.2
10°	758.4	758.8	758.4	757.4	757.4	755.9	753.5	752.5	750.6	747.7	746.2
12.5°	763.2	763.7	763.2	762.2	761.8	759.3	757.4	755.9	754.5	752.1	749.6
15°	770.0	771.0	770.0	768.1	766.6	764.7	763.7	764.2	764.7	762.7	760.3
17.5°	782.6	783.1	781.6	777.3	775.3	773.4	773.4	774.4	775.8	774.8	772.4
20°	805.9	804.4	801.0	795.7	793.3	789.9	789.4	789.9	789.9	789.4	787.5
22.5°	835.0	834.0	829.6	822.8	819.5	817.5	814.6	812.2	811.7	810.2	808.3
25°	869.9	869.4	864.1	858.2	855.8	853.4	851.0	847.6	844.7	841.3	839.3
27.5°	914.5	912.6	904.8	901.9	898.5	897.0	893.6	889.8	887.3	883.0	880.6
30°	963.5	963.5	957.2	956.2	956.2	952.8	948.9	942.1	937.8	933.4	931.9
32.5°	1012.4	1012.9	1006.6	1008.6	1010.0	1012.4	1013.4	1011.0	1008.1	1007.6	1004.7
35°	1083.2	1081.3	1075.0	1076.4	1076.0	1075.5	1075.5	1080.8	1081.8	1082.7	1076.9
37.5°	1171.0	1171.0	1164.7	1164.7	1161.8	1158.9	1155.0	1158.4	1163.7	1165.2	1161.3
40°	1271.4	1274.8	1267.0	1266.5	1267.5	1258.3	1253.9	1259.2	1262.6	1268.5	1264.1
42.5°	1389.7	1387.3	1379.5	1378.5	1373.2	1370.3	1366.4	1370.8	1376.1	1380.0	1381.4
45°	1503.1	1501.2	1492.5	1492.5	1487.1	1484.7	1486.7	1493.9	1496.4	1501.7	1507.0
47.5°	1615.2	1612.7	1606.9	1609.3	1609.8	1614.2	1620.5	1627.3	1634.1	1641.3	1643.8
50°	1729.6	1730.1	1723.8	1729.6	1736.9	1749.0	1765.9	1777.1	1791.2	1800.4	1803.3
52.5°	1833.8	1835.8	1842.6	1856.1	1870.7	1894.4	1923.5	1950.7	1974.0	1989.5	1988.5
55°	1958.9	1961.8	1978.3	2001.6	2025.4	2061.2	2104.4	2152.4	2191.2	2213.5	2199.4
57.5°	2118.9	2125.2	2143.7	2175.2	2210.6	2257.1	2316.3	2388.5	2448.7	2478.7	2455.9
60°	2338.6	2342.5	2364.8	2399.7	2442.4	2500.1	2579.1	2676.1	2760.9	2800.7	2774.5
62.5°	2628.1	2635.3	2653.3	2688.7	2732.3	2797.8	2894.3	3015.5	3121.2	3176.5	3117.3
65°	2973.8	2997.1	3012.1	3048.0	3088.7	3158.1	3258.9	3388.9	3502.3	3538.7	3470.3
67.5°	3316.1	3336.5	3362.7	3403.9	3445.1	3523.2	3616.8	3742.8	3867.4	3900.4	3794.2
70°	3466.0	3477.6	3518.3	3574.6	3653.6	3745.7	3853.9	3995.4	4149.6	4176.8	4042.0
72.5°	3165.8	3177.4	3223.0	3318.6	3456.3	3602.7	3791.3	3999.3	4203.0	4233.5	4047.8
75°	2394.4	2375.4	2442.8	2569.4	2755.1	2959.3	3223.0	3521.2	3815.6	3853.9	3632.3
77.5°	1237.4	1235.0	1285.9	1443.0	1664.6	1896.9	2187.3	2524.3	2812.3	2928.7	2748.3
80°	348.6	352.5	376.8	454.8	584.3	752.1	979.0	1294.6	1530.3	1650.5	1549.7
82.5°	136.7	147.4	156.6	171.2	188.1	212.9	284.1	422.8	567.3	677.9	555.2
85°	49.0	52.4	74.2	87.8	89.2	94.1	107.2	125.1	150.8	179.9	147.9
87.5°	18.4	20.4	23.8	39.3	38.8	35.4	43.2	45.1	33.9	31.0	38.3
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°	748.7	748.7	748.7	748.7	748.7	748.7	748.7	748.7
2.5°	746.7	747.2	747.2	747.7	748.2	748.2	749.1	749.1
5°	747.2	747.2	746.2	746.7	746.2	746.2	746.7	746.7
7.5°	746.2	745.8	744.8	744.3	743.3	743.3	743.3	743.3
10°	744.8	744.3	743.3	742.8	742.4	742.4	742.4	742.4
12.5°	748.7	747.2	746.2	745.8	745.8	745.8	745.8	745.8
15°	758.8	755.5	753.0	753.0	753.5	754.5	754.5	755.5
17.5°	771.5	767.6	765.1	763.2	764.2	765.6	766.6	767.6
20°	786.5	784.5	781.1	779.2	779.2	781.1	782.1	782.6
22.5°	807.3	805.9	804.4	802.0	802.0	803.0	804.9	804.9
25°	838.4	837.4	836.4	834.5	834.0	834.0	835.0	835.9
27.5°	877.2	877.6	876.7	876.2	874.7	874.2	875.7	875.2
30°	929.0	931.5	933.9	931.9	929.5	928.1	926.6	924.7
32.5°	999.3	996.4	994.5	991.1	986.7	982.9	980.0	976.6
35°	1065.8	1060.9	1059.0	1061.9	1061.4	1059.0	1055.6	1052.7
37.5°	1147.2	1146.3	1147.2	1152.6	1151.6	1154.0	1147.2	1146.8
40°	1250.0	1251.0	1257.8	1264.1	1267.5	1270.9	1267.0	1263.1
42.5°	1369.3	1368.8	1371.3	1380.0	1385.8	1389.7	1381.4	1380.5
45°	1495.4	1492.0	1493.9	1501.2	1507.0	1511.4	1502.2	1502.2
47.5°	1634.1	1628.2	1621.9	1630.2	1633.6	1636.5	1629.2	1626.8
50°	1788.7	1776.6	1763.0	1766.4	1766.4	1765.5	1756.3	1755.8
52.5°	1966.2	1943.9	1919.2	1910.0	1904.6	1898.8	1882.8	1875.0
55°	2170.3	2136.9	2098.1	2074.3	2061.7	2045.7	2019.1	2011.8
57.5°	2408.9	2356.5	2289.6	2260.5	2232.4	2206.2	2176.6	2168.4
60°	2691.6	2614.5	2525.8	2471.9	2441.4	2416.2	2385.6	2384.2
62.5°	3006.8	2885.1	2784.7	2736.2	2713.9	2691.6	2662.5	2666.4
65°	3327.3	3200.2	3106.2	3066.9	3046.0	3027.6	2998.5	3002.9
67.5°	3643.4	3526.6	3423.3	3383.0	3359.8	3336.5	3310.3	3314.7
70°	3870.3	3725.4	3609.0	3519.8	3464.0	3401.0	3360.3	3350.1
72.5°	3805.4	3581.8	3397.1	3220.1	3116.4	3032.0	2974.8	2950.0
75°	3293.3	2987.9	2750.3	2533.0	2410.8	2311.4	2239.2	2194.1
77.5°	2445.8	2102.5	1821.7	1571.5	1373.7	1240.8	1147.2	1086.6
80°	1338.8	1018.3	744.3	523.2	384.5	319.5	282.2	264.3
82.5°	417.0	269.1	198.3	171.2	159.0	152.3	141.1	123.2
85°	132.9	116.4	108.1	103.3	98.4	85.8	59.2	53.8
87.5°	51.4	52.9	52.4	49.5	50.4	36.4	29.1	25.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)