

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: P200078

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200078
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: GWC-AF-02-LED-E1-5WQ-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 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: 10814.6 lumens
Efficiency: N/A
Efficacy: 125.8 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

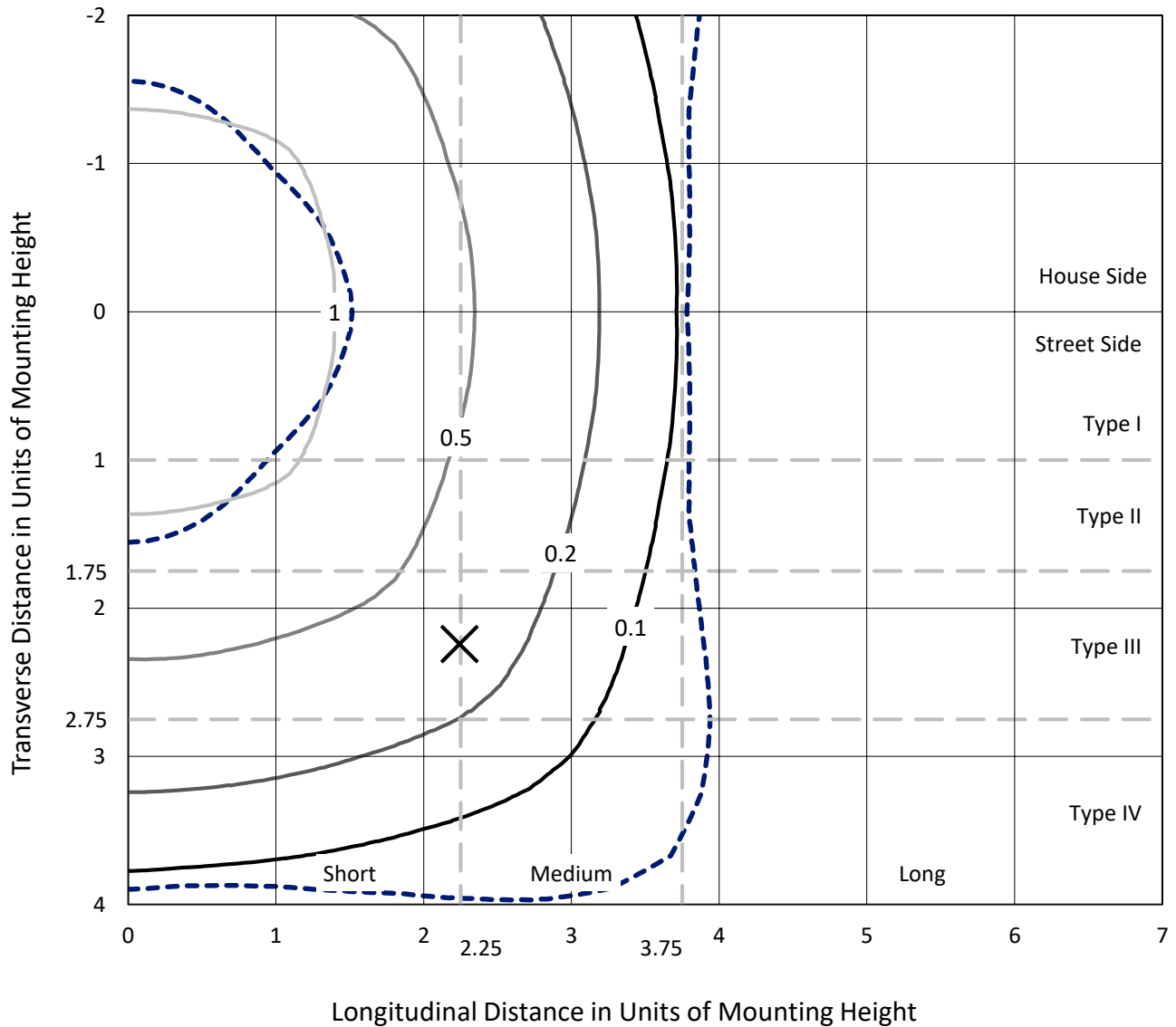
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

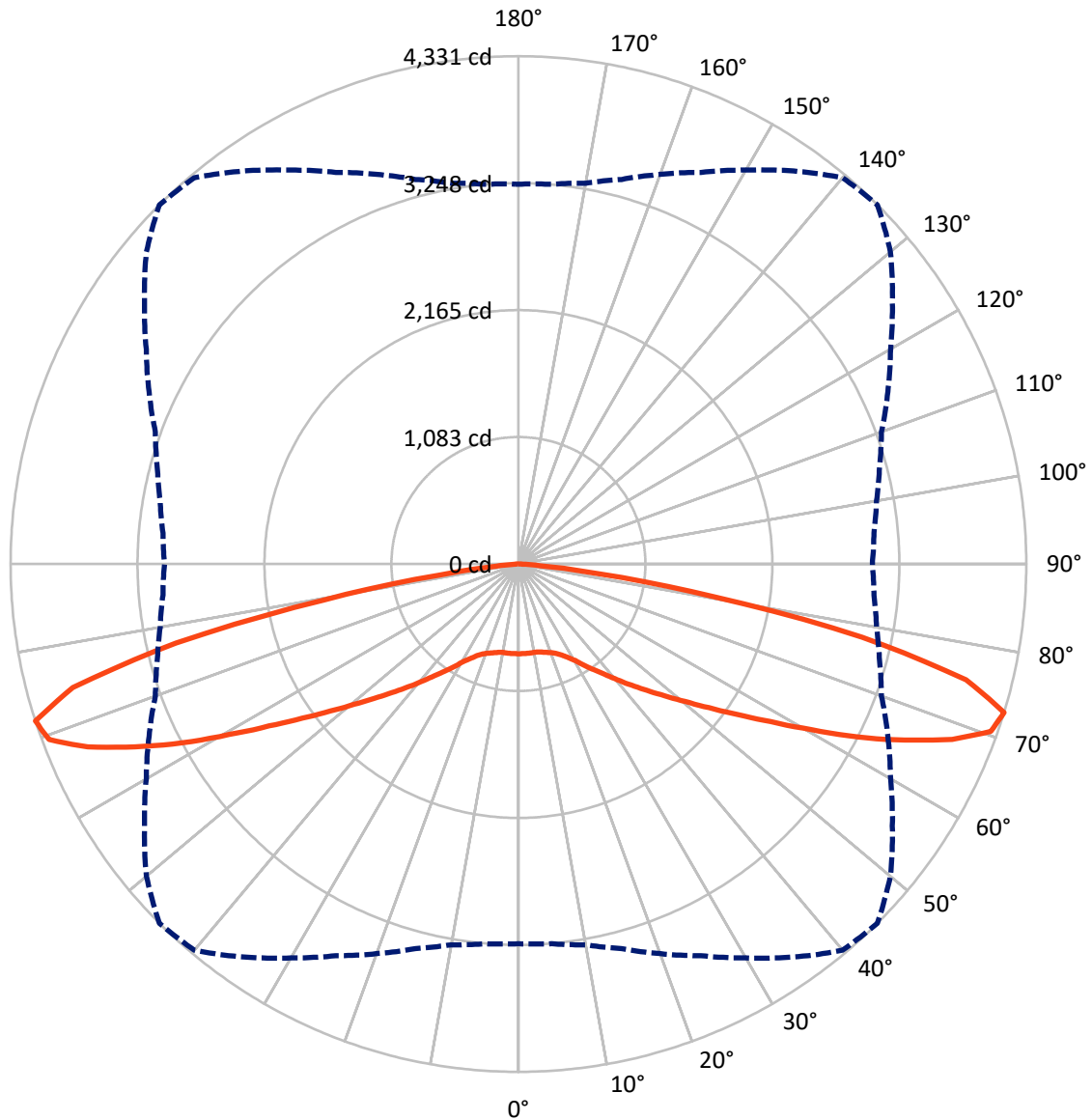
× Max cd
 - - - 1/2 Max cd



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	5407.3	0.0	5407.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5407.3	0.0	5407.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	10814.6	0.0	10814.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	0.7
10°-20°	222.1	2.1
20°-30°	405.9	3.8
30°-40°	699.8	6.5
40°-50°	1196.3	11.1
50°-60°	1939.0	17.9
60°-70°	3216.8	29.7
70°-80°	2833.2	26.2
80°-90°	228.4	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°	10814.6	100.0
0°-180°	10814.6	100.0



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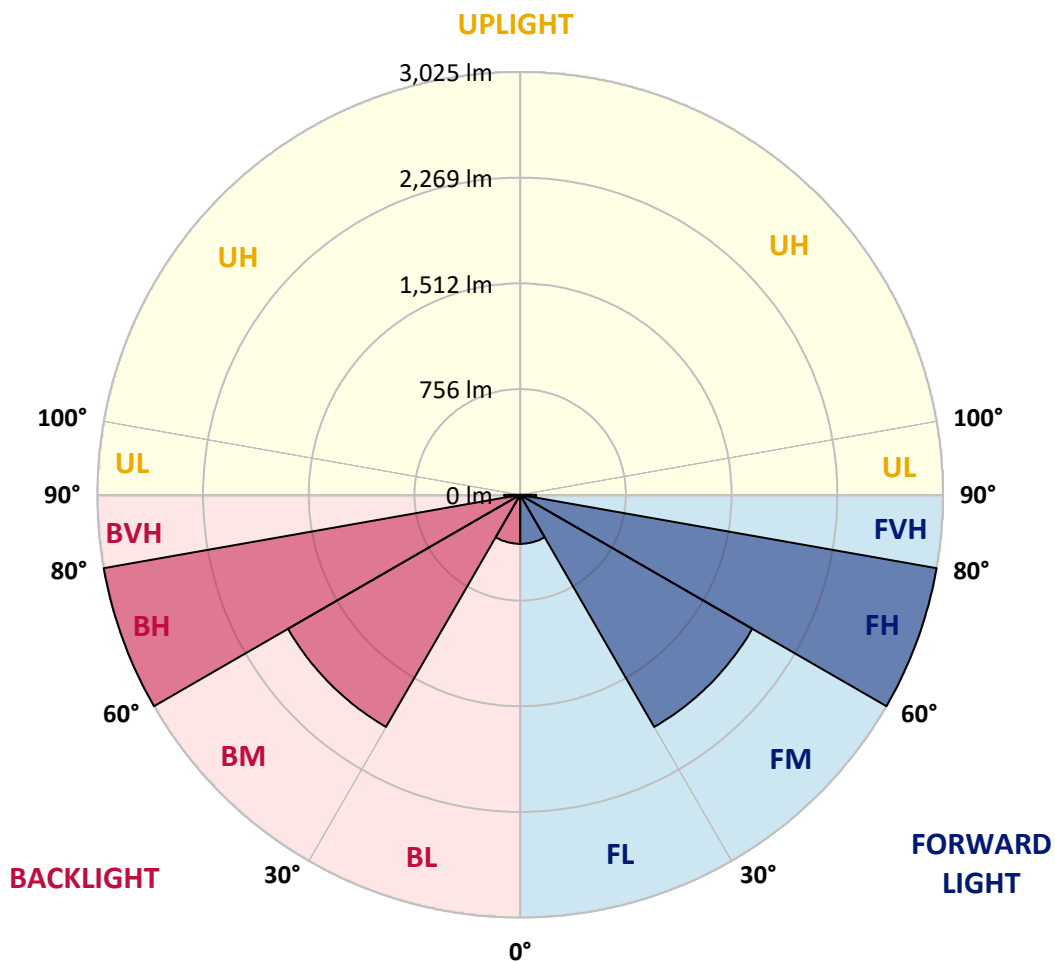
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	350.6	3.2			
FM	(30°-60°)	1917.6	17.7			
FH	(60°-80°)	3025.0	28.0			G2/5000
FVH	(80°-90°)	114.2	1.1			G2/225
BL	(0°-30°)	350.6	3.2	B1/500		
BM	(30°-60°)	1917.6	17.7	B2/2500		
BH	(60°-80°)	3025.0	28.0	B4/5000		G2/5000
BVH	(80°-90°)	114.2	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°	765.9	765.9	765.9	765.9	765.9	765.9	765.9	765.9	765.9	765.9	765.9
2.5°	765.9	766.3	766.8	766.3	766.3	765.9	765.4	765.9	765.4	764.3	764.9
5°	768.3	769.4	769.4	768.3	768.8	768.3	767.3	767.8	766.8	765.4	765.4
7.5°	771.3	771.8	771.8	770.8	771.3	770.3	769.4	768.8	767.8	765.9	764.3
10°	775.8	776.2	775.8	774.8	774.8	773.2	770.8	769.8	767.8	764.9	763.3
12.5°	780.7	781.2	780.7	779.7	779.3	776.7	774.8	773.2	771.8	769.4	766.8
15°	787.7	788.7	787.7	785.7	784.2	782.3	781.2	781.7	782.3	780.2	777.7
17.5°	800.6	801.1	799.5	795.1	793.1	791.2	791.2	792.2	793.6	792.6	790.1
20°	824.4	822.9	819.4	814.0	811.5	808.0	807.5	808.0	808.0	807.5	805.6
22.5°	854.2	853.1	848.6	841.7	838.3	836.3	833.3	830.8	830.3	828.8	826.9
25°	889.9	889.4	883.9	877.9	875.4	873.0	870.5	867.1	864.1	860.6	858.6
27.5°	935.5	933.5	925.6	922.6	919.1	917.6	914.1	910.2	907.7	903.3	900.8
30°	985.6	985.6	979.2	978.1	978.1	974.7	970.7	963.7	959.3	954.8	953.3
32.5°	1035.6	1036.1	1029.7	1031.7	1033.2	1035.6	1036.7	1034.2	1031.2	1030.7	1027.8
35°	1108.1	1106.1	1099.7	1101.1	1100.7	1100.2	1100.2	1105.6	1106.6	1107.5	1101.6
37.5°	1197.9	1197.9	1191.4	1191.4	1188.5	1185.5	1181.5	1185.0	1190.4	1191.9	1188.0
40°	1300.6	1304.1	1296.1	1295.6	1296.6	1287.2	1282.7	1288.1	1291.6	1297.6	1293.1
42.5°	1421.6	1419.1	1411.2	1410.1	1404.7	1401.7	1397.8	1402.3	1407.7	1411.7	1413.1
45°	1537.6	1535.7	1526.8	1526.8	1521.2	1518.8	1520.8	1528.2	1530.7	1536.2	1541.6
47.5°	1652.3	1649.7	1643.8	1646.2	1646.7	1651.2	1657.7	1664.6	1671.6	1679.0	1681.5
50°	1769.3	1769.8	1763.4	1769.3	1776.8	1789.1	1806.4	1817.9	1832.3	1841.7	1844.7
52.5°	1875.9	1877.9	1884.9	1898.7	1913.6	1937.9	1967.6	1995.5	2019.3	2035.2	2034.1
55°	2003.9	2006.8	2023.7	2047.5	2071.9	2108.5	2152.7	2201.8	2241.5	2264.3	2249.9
57.5°	2167.5	2174.0	2192.9	2225.1	2261.3	2308.9	2369.5	2443.3	2504.9	2535.6	2512.3
60°	2392.3	2396.3	2419.1	2454.8	2498.5	2557.5	2638.3	2737.5	2824.3	2865.0	2838.2
62.5°	2688.4	2695.8	2714.2	2750.4	2795.0	2862.0	2960.7	3084.7	3192.8	3249.4	3188.8
65°	3042.1	3065.9	3081.2	3118.0	3159.6	3230.6	3333.7	3466.7	3582.7	3619.9	3549.9
67.5°	3392.2	3413.1	3439.9	3482.0	3524.2	3604.1	3699.8	3828.7	3956.2	3989.9	3881.3
70°	3545.5	3557.4	3599.0	3656.6	3737.5	3831.7	3942.4	4087.1	4244.8	4272.7	4134.8
72.5°	3238.5	3250.3	3297.0	3394.8	3535.6	3685.4	3878.3	4091.1	4299.5	4330.7	4140.7
75°	2449.4	2429.9	2498.9	2628.4	2818.3	3027.2	3297.0	3602.0	3903.2	3942.4	3715.7
77.5°	1265.8	1263.3	1315.4	1476.1	1702.8	1940.4	2237.5	2582.2	2876.8	2995.9	2811.4
80°	356.6	360.6	385.4	465.2	597.7	769.4	1001.5	1324.3	1565.4	1688.4	1585.3
82.5°	139.8	150.8	160.2	175.1	192.4	217.8	290.6	432.5	580.3	693.5	567.9
85°	50.1	53.6	75.9	89.8	91.2	96.3	109.7	128.0	154.3	184.0	151.3
87.5°	18.8	20.9	24.3	40.2	39.7	36.2	44.2	46.1	34.7	31.7	39.2
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°	765.9	765.9	765.9	765.9	765.9	765.9	765.9	765.9
2.5°	763.8	764.3	764.3	764.9	765.4	765.4	766.3	766.3
5°	764.3	764.3	763.3	763.8	763.3	763.3	763.8	763.8
7.5°	763.3	762.9	761.9	761.4	760.4	760.4	760.4	760.4
10°	761.9	761.4	760.4	759.8	759.4	759.4	759.4	759.4
12.5°	765.9	764.3	763.3	762.9	762.9	762.9	762.9	762.9
15°	776.2	772.8	770.3	770.3	770.8	771.8	771.8	772.8
17.5°	789.2	785.2	782.7	780.7	781.7	783.2	784.2	785.2
20°	804.6	802.5	799.0	797.1	797.1	799.0	800.0	800.6
22.5°	825.8	824.4	822.9	820.4	820.4	821.4	823.4	823.4
25°	857.6	856.6	855.6	853.7	853.1	853.1	854.2	855.1
27.5°	897.3	897.7	896.8	896.3	894.8	894.3	895.8	895.3
30°	950.3	952.9	955.3	953.3	950.8	949.4	947.9	945.9
32.5°	1022.2	1019.3	1017.3	1013.8	1009.3	1005.5	1002.5	999.0
35°	1090.3	1085.2	1083.3	1086.3	1085.8	1083.3	1079.8	1076.9
37.5°	1173.5	1172.6	1173.5	1179.1	1178.0	1180.5	1173.5	1173.1
40°	1278.7	1279.7	1286.7	1293.1	1296.6	1300.1	1296.1	1292.1
42.5°	1400.7	1400.2	1402.8	1411.7	1417.6	1421.6	1413.1	1412.2
45°	1529.7	1526.2	1528.2	1535.7	1541.6	1546.1	1536.7	1536.7
47.5°	1671.6	1665.6	1659.1	1667.6	1671.1	1674.1	1666.6	1664.1
50°	1829.8	1817.4	1803.5	1806.9	1806.9	1806.0	1796.6	1796.1
52.5°	2011.3	1988.5	1963.2	1953.8	1948.3	1942.4	1926.0	1918.0
55°	2220.1	2185.9	2146.3	2121.9	2109.0	2092.7	2065.4	2058.0
57.5°	2464.2	2410.6	2342.1	2312.4	2283.6	2256.8	2226.6	2218.2
60°	2753.4	2674.5	2583.8	2528.6	2497.4	2471.7	2440.4	2438.9
62.5°	3075.8	2951.3	2848.6	2799.0	2776.2	2753.4	2723.6	2727.6
65°	3403.7	3273.6	3177.5	3137.3	3115.9	3097.1	3067.3	3071.8
67.5°	3727.0	3607.5	3501.9	3460.6	3436.9	3413.1	3386.3	3390.8
70°	3959.1	3810.9	3691.8	3600.6	3543.5	3479.1	3437.4	3427.0
72.5°	3892.7	3664.0	3475.1	3294.0	3187.9	3101.6	3043.1	3017.7
75°	3368.9	3056.5	2813.4	2591.1	2466.1	2364.4	2290.6	2244.5
77.5°	2501.9	2150.8	1863.5	1607.6	1405.2	1269.3	1173.5	1111.5
80°	1369.5	1041.7	761.4	535.2	393.3	326.8	288.7	270.4
82.5°	426.6	275.3	202.9	175.1	162.6	155.8	144.3	126.0
85°	136.0	119.1	110.6	105.7	100.7	87.8	60.6	55.0
87.5°	52.6	54.1	53.6	50.6	51.6	37.2	29.8	26.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)