

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: INVUE

Report Number: P180091

Luminaire Tested: **ICM-F04-LED-E1-5WQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180091
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F04-LED-E1-5WQ-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8254.1 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

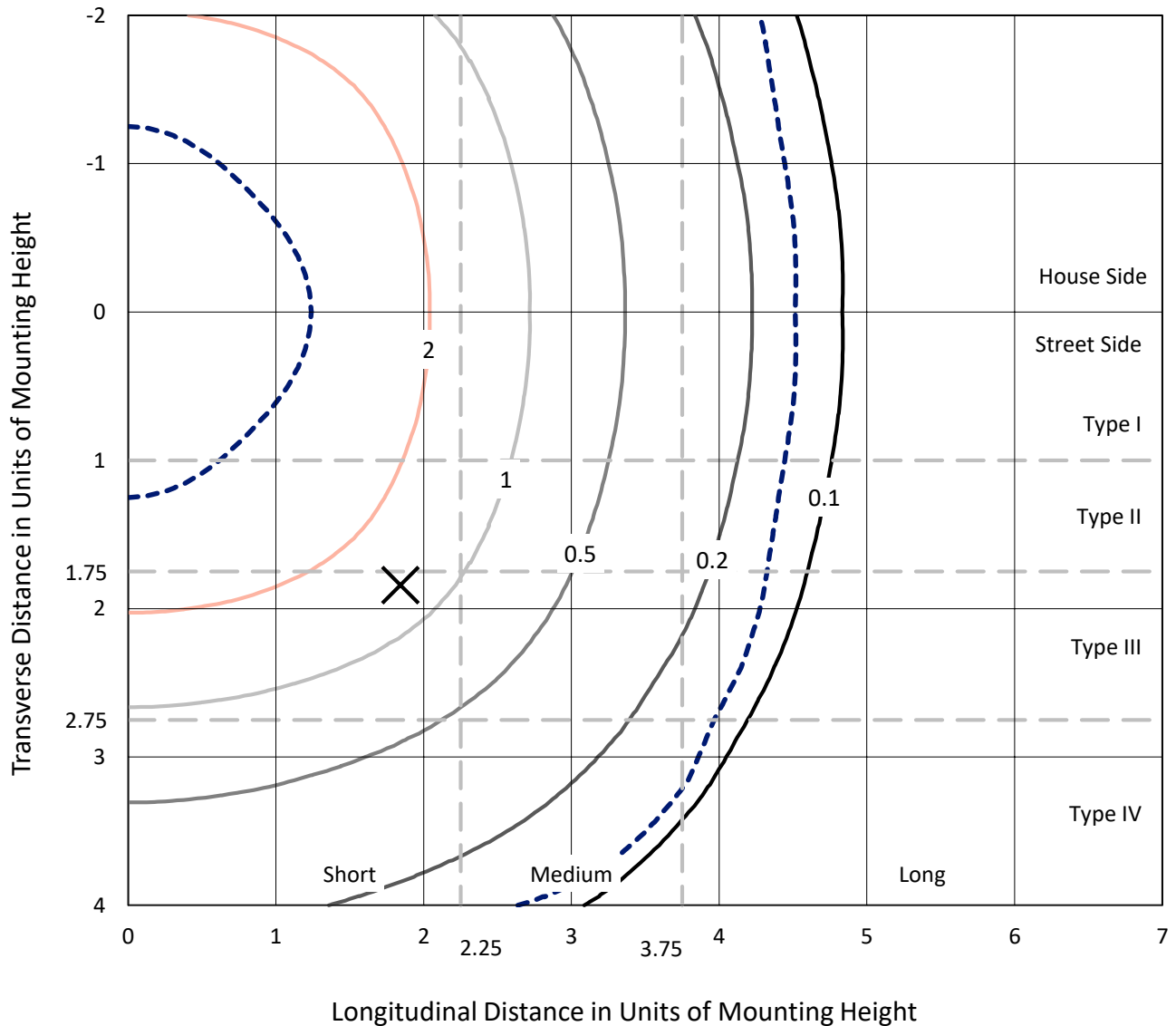
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180091
 CATALOG NUMBER: ICM-F04-LED-E1-5WQ-8030

Iso-Footcandle Lines of Horizontal Illumination

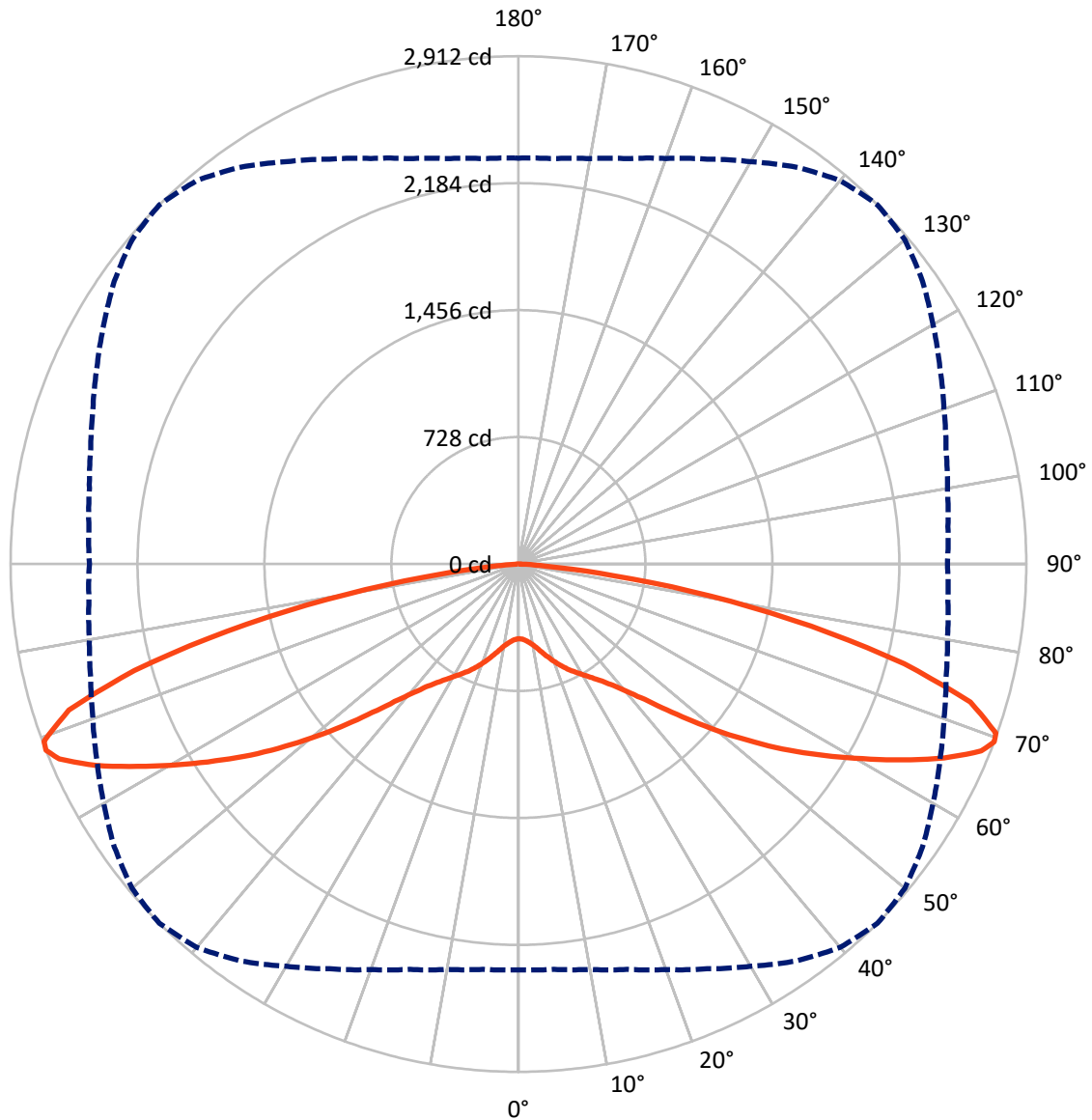
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P180091
CATALOG NUMBER: ICM-F04-LED-E1-5WQ-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4127.0	0.0	4127.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4127.0	0.0	4127.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8254.1	0.0	8254.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	0.5
10°-20°	152.0	1.8
20°-30°	307.7	3.7
30°-40°	516.0	6.3
40°-50°	910.1	11.0
50°-60°	1605.0	19.4
60°-70°	2450.3	29.7
70°-80°	2047.5	24.8
80°-90°	222.5	2.7
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°	8254.1	100.0
0°-180°	8254.1	100.0

Coefficient of Utilization



REPORT NUMBER: P180091

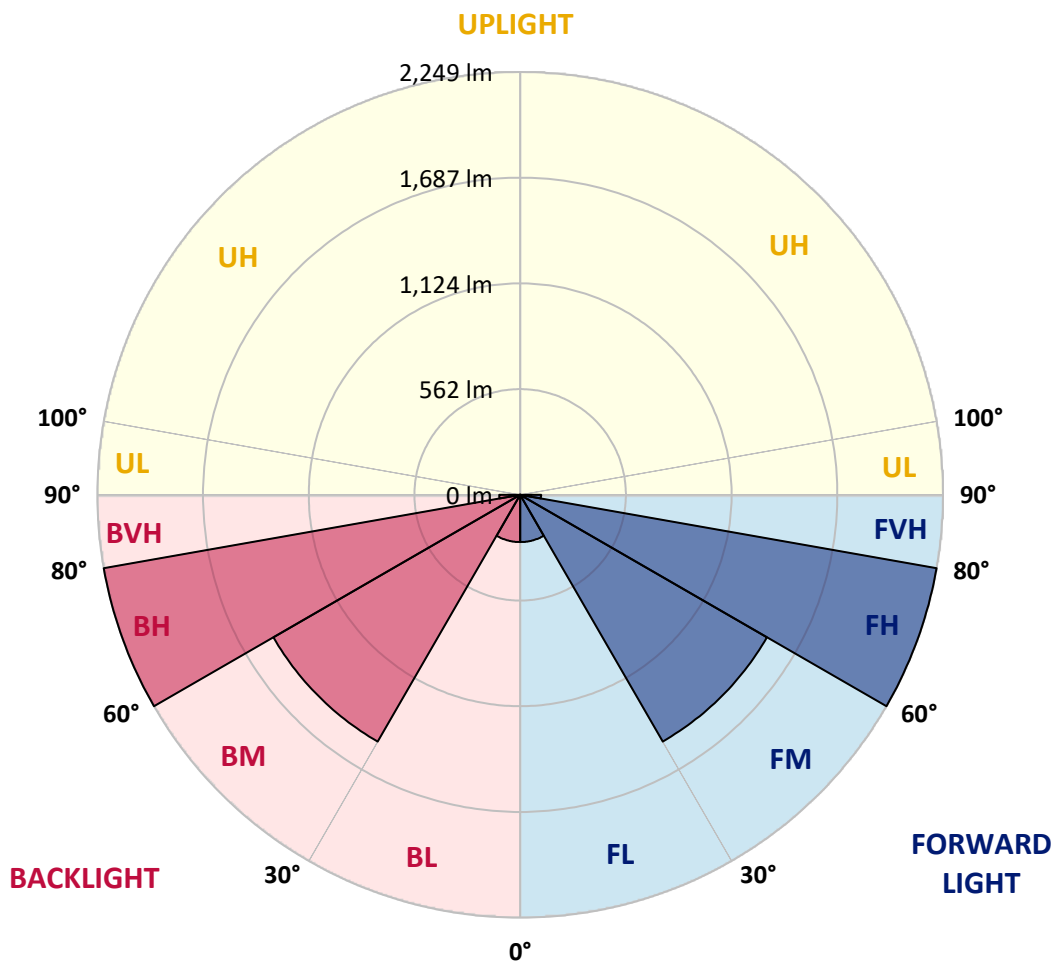
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	251.4	3.0			
FM	(30°-60°)	1515.5	18.4			
FH	(60°-80°)	2248.9	27.2			G2/5000
FVH	(80°-90°)	111.2	1.3			G2/225
BL	(0°-30°)	251.4	3.0	B1/500		
BM	(30°-60°)	1515.5	18.4	B2/2500		
BH	(60°-80°)	2248.9	27.2	B3/2500		G2/5000
BVH	(80°-90°)	111.2	1.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





REPORT NUMBER: P180091

CATALOG NUMBER: ICM-F04-LED-E1-5WQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	432.1	432.9	432.1	432.1	432.1	432.1	432.1	431.3	431.3	431.3	432.1
5°	440.7	441.6	440.7	441.6	441.6	441.6	441.6	440.7	440.7	440.7	440.7
7.5°	454.5	454.5	454.5	455.4	454.5	454.5	455.4	454.5	454.5	454.5	454.5
10°	474.4	473.6	473.6	473.6	473.6	473.6	474.4	474.4	474.4	473.6	473.6
12.5°	498.6	497.8	498.6	498.6	499.5	499.5	499.5	499.5	499.5	499.5	498.6
15°	528.0	528.0	528.0	528.8	530.6	530.6	529.8	530.6	530.6	530.6	530.6
17.5°	560.8	562.6	560.8	561.7	562.6	561.7	563.4	564.3	565.2	564.3	561.7
20°	594.5	595.4	595.4	595.4	595.4	597.1	598.1	598.1	600.6	599.7	598.9
22.5°	626.5	628.3	628.3	629.1	629.1	631.7	631.7	631.7	633.4	635.2	633.4
25°	660.2	659.4	659.4	661.1	662.0	665.4	665.4	667.2	669.8	670.6	668.8
27.5°	690.5	689.6	689.6	692.2	693.0	697.4	697.4	700.8	702.6	703.4	701.7
30°	722.4	722.4	721.6	724.2	726.8	730.2	731.9	735.4	738.0	738.9	737.1
32.5°	760.5	758.7	759.6	761.3	763.1	766.5	769.1	773.4	776.9	777.8	776.0
35°	803.7	801.1	802.0	803.7	806.2	811.4	815.8	818.3	823.5	825.3	821.9
37.5°	851.2	852.1	851.2	855.5	859.8	865.9	871.1	874.5	879.7	882.3	879.7
40°	918.6	916.0	918.6	923.0	929.9	937.6	948.0	950.6	955.8	960.9	954.9
42.5°	1005.9	1004.2	1010.2	1013.7	1021.5	1030.1	1043.1	1050.0	1057.8	1061.2	1056.0
45°	1120.0	1120.0	1126.9	1127.7	1139.8	1151.1	1169.2	1177.9	1192.6	1192.6	1192.6
47.5°	1246.1	1251.4	1255.6	1264.3	1272.9	1293.7	1311.8	1330.8	1344.7	1346.4	1343.8
50°	1376.7	1381.8	1394.8	1406.9	1425.9	1451.8	1471.7	1496.8	1508.8	1519.2	1515.7
52.5°	1520.9	1521.8	1537.4	1552.9	1580.6	1609.1	1641.0	1667.0	1688.6	1698.1	1690.3
55°	1679.1	1680.8	1694.6	1711.1	1742.2	1775.0	1814.8	1841.6	1869.2	1886.5	1873.5
57.5°	1850.2	1851.1	1864.8	1884.8	1922.0	1954.8	1992.8	2030.8	2056.8	2072.3	2063.6
60°	2039.5	2043.7	2054.2	2079.2	2114.6	2149.2	2187.3	2220.9	2251.2	2267.5	2259.0
62.5°	2241.7	2246.0	2260.7	2280.6	2311.6	2349.7	2386.0	2429.2	2454.2	2472.4	2459.5
65°	2377.3	2385.1	2408.5	2435.3	2481.0	2530.3	2572.7	2631.4	2661.7	2683.3	2671.2
67.5°	2386.0	2390.3	2418.8	2459.5	2520.8	2595.1	2681.5	2773.1	2832.8	2861.3	2840.6
69°	2327.2	2333.2	2360.9	2406.7	2475.0	2561.4	2664.2	2778.3	2869.9	2912.3	2892.4
70°	2260.7	2273.6	2303.9	2354.0	2420.6	2511.3	2617.6	2739.5	2846.6	2904.5	2889.8
72.5°	2120.7	2124.1	2144.0	2183.7	2234.7	2310.0	2410.2	2525.1	2627.1	2710.1	2722.2
75°	1882.2	1893.4	1908.1	1934.9	1960.8	2015.3	2082.6	2161.3	2220.9	2284.9	2287.5
77.5°	1422.4	1456.1	1467.4	1473.4	1484.7	1527.8	1586.6	1654.9	1704.2	1714.5	1712.8
80°	638.6	683.5	694.0	743.2	773.4	845.1	935.1	1039.6	1109.6	1117.4	1098.3
82.5°	125.3	134.0	156.4	195.3	266.1	308.5	367.3	440.7	508.1	547.0	523.7
85°	41.5	44.1	51.0	56.2	64.8	73.5	89.0	110.6	137.4	152.1	135.6
87.5°	16.5	16.5	19.0	20.7	22.5	22.5	22.5	20.7	19.9	16.5	14.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P180091

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	431.3	431.3	431.3	431.3	431.3	431.3	431.3	431.3
5°	440.7	439.9	439.9	439.0	439.0	439.0	439.0	439.0
7.5°	453.7	452.8	452.0	452.8	452.0	452.0	452.0	452.0
10°	473.6	471.8	471.0	470.1	470.1	470.1	469.2	469.2
12.5°	496.9	496.9	496.0	495.2	493.4	494.3	493.4	491.7
15°	528.8	527.2	526.2	525.4	523.7	523.7	523.7	522.8
17.5°	560.8	559.2	559.2	556.6	555.6	555.6	555.6	556.6
20°	596.3	593.7	592.0	590.2	588.5	589.4	587.6	589.4
22.5°	631.7	628.3	626.5	623.9	621.3	621.3	620.5	618.8
25°	666.2	662.0	660.2	657.7	654.1	654.1	652.5	650.7
27.5°	699.1	694.8	693.0	687.9	684.5	683.5	681.9	680.9
30°	735.4	730.2	727.6	722.4	717.3	716.4	713.8	713.8
32.5°	773.4	768.3	766.5	758.7	754.4	754.4	752.7	751.0
35°	820.9	813.2	811.4	803.7	797.6	797.6	795.9	796.7
37.5°	877.1	871.1	865.0	859.0	852.1	851.2	849.5	847.7
40°	952.3	945.4	938.5	929.9	923.8	922.1	919.4	918.6
42.5°	1052.6	1045.7	1031.8	1024.9	1018.9	1013.7	1012.8	1011.9
45°	1180.5	1171.8	1162.3	1149.3	1141.6	1130.3	1128.6	1124.3
47.5°	1334.2	1317.9	1301.4	1290.2	1278.1	1265.1	1262.5	1255.6
50°	1497.6	1484.7	1457.0	1438.9	1419.8	1406.9	1398.2	1395.6
52.5°	1673.0	1648.8	1621.2	1597.0	1569.3	1552.0	1536.5	1532.2
55°	1856.3	1821.7	1787.1	1758.6	1730.9	1710.2	1695.5	1688.6
57.5°	2039.5	2001.4	1963.4	1932.3	1908.9	1882.2	1867.5	1864.0
60°	2230.4	2194.2	2155.3	2124.1	2095.6	2072.3	2063.6	2047.3
62.5°	2432.7	2394.6	2358.3	2328.1	2291.8	2275.4	2260.7	2251.2
65°	2631.4	2587.4	2541.5	2509.6	2473.2	2450.0	2431.8	2418.8
67.5°	2785.2	2718.7	2657.3	2603.7	2554.5	2518.2	2494.9	2482.8
69°	2828.5	2745.5	2666.8	2596.9	2538.9	2498.3	2472.4	2460.3
70°	2823.3	2731.6	2645.2	2568.3	2505.2	2462.1	2436.9	2414.5
72.5°	2663.4	2579.6	2483.6	2399.8	2342.8	2301.3	2276.2	2264.1
75°	2272.8	2216.6	2147.5	2082.6	2041.2	2016.9	1985.9	1986.7
77.5°	1654.9	1656.7	1610.0	1543.5	1496.8	1488.1	1474.2	1460.5
80°	1026.6	944.6	891.0	819.3	766.5	720.7	700.8	657.7
82.5°	473.6	369.9	286.9	216.9	166.8	130.5	114.0	93.3
85°	105.4	80.4	66.5	53.6	45.8	42.3	34.6	32.0
87.5°	14.7	12.9	12.1	11.3	9.5	6.9	5.2	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)