

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: P180213

Luminaire Tested: **ICM-F06-LED-E1-5XQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180213
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F06-LED-E1-5XQ
Description: ICON SITE MEDIUM LED LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14653.9 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

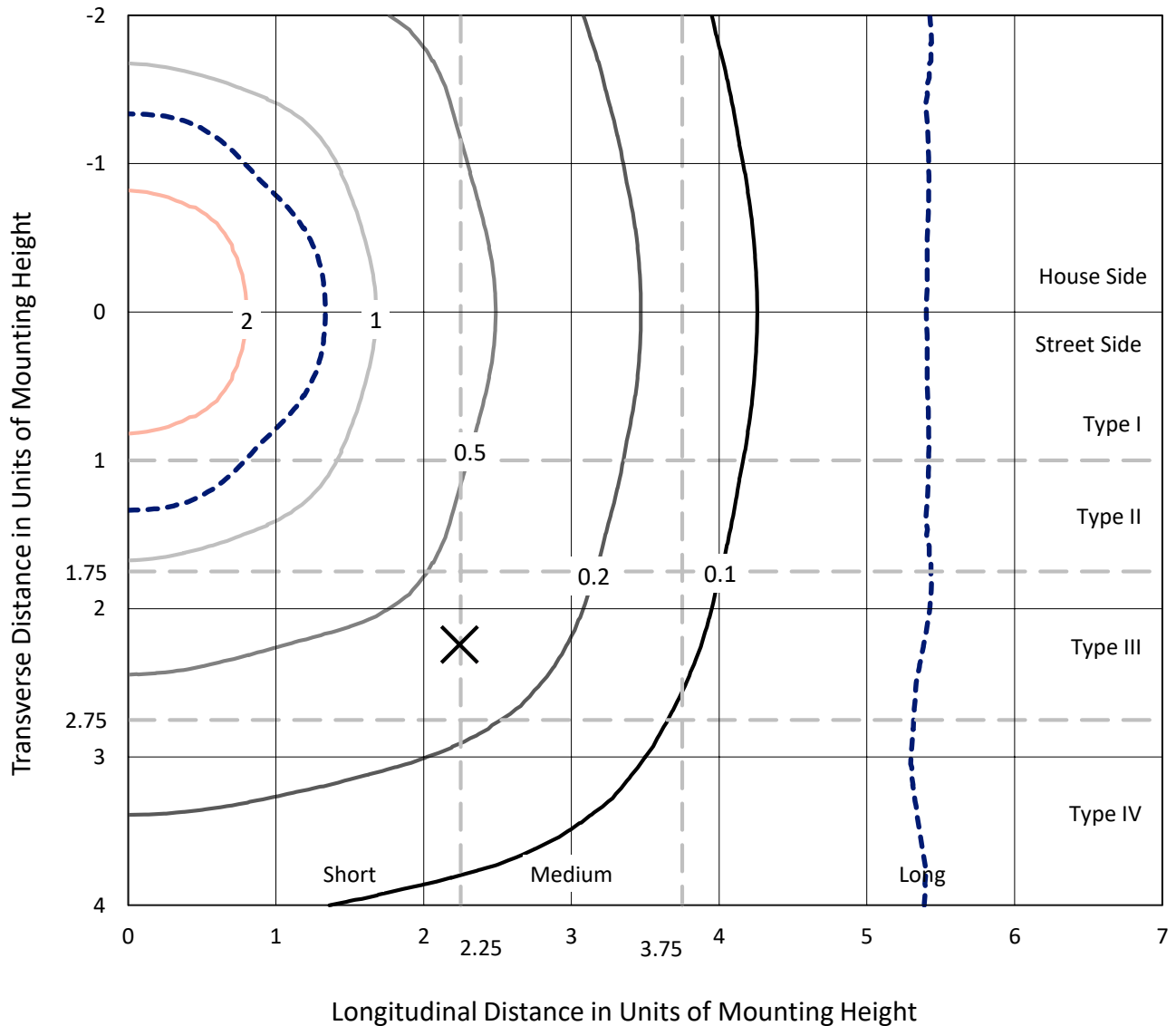
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

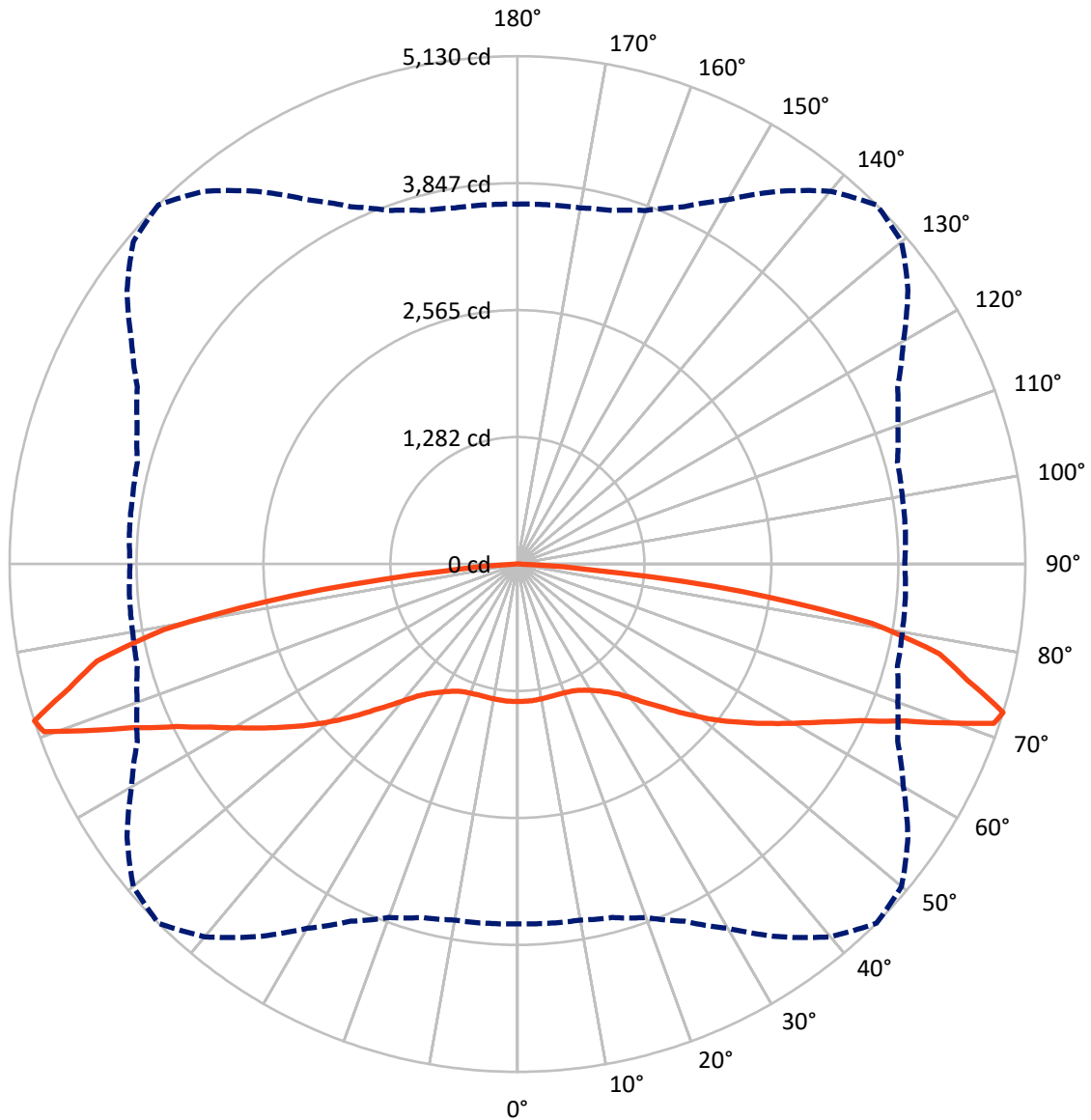
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Non-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	7327.0	0.0	7327.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7327.0	0.0	7327.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14653.9	0.0	14653.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	0.9
10°-20°	391.4	2.7
20°-30°	655.5	4.5
30°-40°	999.2	6.8
40°-50°	1595.6	10.9
50°-60°	2453.3	16.7
60°-70°	3572.0	24.4
70°-80°	4023.9	27.5
80°-90°	830.7	5.7
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°	14653.9	100.0
0°-180°	14653.9	100.0



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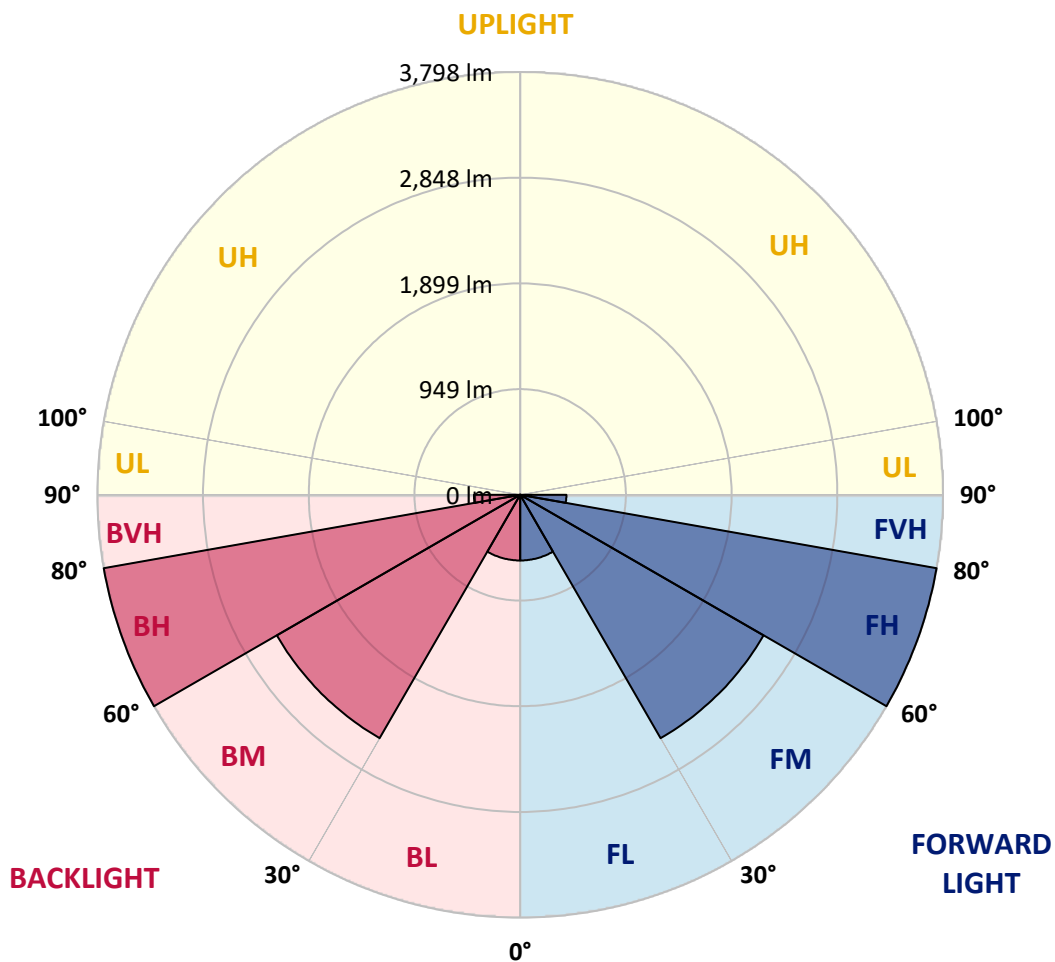
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	589.6	4.0			
FM (30°-60°)	2524.1	17.2			
FH (60°-80°)	3798.0	25.9			G2/5000
FVH (80°-90°)	415.3	2.8			G3/500
BL (0°-30°)	589.6	4.0	B2/1000		
BM (30°-60°)	2524.1	17.2	B3/5000		
BH (60°-80°)	3798.0	25.9	B4/5000		G2/5000
BVH (80°-90°)	415.3	2.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1388.4	1388.4	1388.4	1388.4	1388.4	1388.4	1388.4	1388.4	1388.4	1388.4	1388.4
2.5°	1390.7	1391.5	1391.1	1390.3	1390.7	1390.3	1389.6	1389.2	1386.5	1388.0	1390.3
5°	1390.7	1390.0	1389.6	1389.2	1389.2	1390.3	1389.2	1388.0	1387.7	1388.5	1387.3
7.5°	1390.0	1388.5	1387.6	1387.3	1387.7	1388.0	1386.9	1385.3	1386.5	1385.3	1383.8
10°	1387.6	1386.5	1386.9	1385.3	1385.7	1385.3	1383.8	1382.6	1383.5	1382.3	1380.4
12.5°	1388.5	1386.5	1386.1	1385.3	1384.9	1384.6	1382.7	1380.8	1381.1	1380.4	1378.4
15°	1388.5	1387.3	1386.9	1385.3	1384.9	1384.2	1381.9	1381.1	1381.1	1379.9	1377.7
17.5°	1389.2	1388.5	1388.5	1386.5	1385.7	1385.3	1382.7	1381.6	1382.7	1380.4	1378.8
20°	1391.5	1390.7	1391.1	1390.0	1388.5	1388.5	1386.5	1385.8	1386.1	1385.8	1381.5
22.5°	1396.1	1396.1	1396.8	1396.5	1396.1	1396.5	1395.0	1395.0	1395.4	1395.4	1391.9
25°	1409.1	1408.8	1409.6	1409.5	1410.0	1412.7	1411.5	1411.1	1413.0	1413.0	1409.5
27.5°	1433.7	1432.9	1433.7	1434.4	1436.4	1439.9	1439.1	1440.3	1443.4	1442.6	1439.5
30°	1462.1	1461.4	1463.3	1465.6	1467.1	1472.6	1470.1	1475.9	1478.7	1480.9	1478.7
32.5°	1503.6	1503.6	1507.1	1508.7	1512.0	1517.4	1518.2	1522.8	1526.2	1530.1	1527.5
35°	1558.9	1558.1	1560.8	1563.5	1567.7	1572.8	1574.6	1580.8	1586.1	1588.8	1583.8
37.5°	1643.4	1639.2	1644.1	1645.7	1649.1	1650.2	1655.6	1663.4	1669.1	1668.3	1664.8
40°	1757.8	1757.0	1755.2	1752.8	1758.2	1760.1	1760.1	1770.4	1779.7	1778.2	1777.8
42.5°	1891.5	1888.0	1885.7	1885.7	1888.8	1889.5	1901.4	1909.1	1915.6	1917.1	1915.6
45°	2035.0	2031.5	2032.4	2030.8	2031.9	2036.9	2043.8	2058.1	2070.3	2070.7	2064.2
47.5°	2189.4	2178.6	2187.1	2175.2	2182.5	2186.3	2203.6	2224.3	2245.8	2249.7	2243.9
50°	2346.1	2344.9	2344.1	2341.8	2345.3	2353.7	2374.9	2407.5	2428.2	2442.1	2432.9
52.5°	2517.3	2511.6	2508.9	2504.9	2508.5	2524.9	2554.5	2582.9	2620.2	2635.9	2623.3
55°	2683.9	2682.1	2672.0	2671.6	2678.9	2704.7	2736.9	2771.8	2812.2	2829.9	2825.2
57.5°	2855.2	2844.1	2840.9	2836.3	2850.9	2875.2	2914.7	2977.7	3019.6	3039.5	3027.9
60°	3022.5	3014.2	3007.6	3006.1	3016.0	3049.9	3106.6	3182.3	3234.2	3260.3	3241.9
62.5°	3202.3	3196.9	3189.2	3180.4	3201.5	3244.9	3315.6	3399.3	3475.6	3507.9	3479.8
65°	3425.7	3414.6	3406.2	3395.1	3412.3	3466.8	3555.6	3673.4	3775.9	3813.5	3793.6
67.5°	3661.5	3651.2	3651.9	3645.0	3675.7	3751.4	3865.8	4025.9	4163.4	4227.5	4189.9
70°	3867.4	3873.0	3874.6	3902.6	3955.7	4070.8	4261.3	4512.0	4720.5	4818.4	4778.1
71°	3806.7	3819.4	3838.9	3868.1	3959.5	4095.7	4355.7	4659.5	4908.2	5074.1	5018.4
72.5°	3634.6	3642.3	3652.3	3696.9	3800.1	3980.6	4248.2	4595.3	4915.2	5129.8	5065.3
75°	3385.9	3393.1	3396.6	3427.6	3521.7	3679.2	3924.1	4232.1	4514.3	4697.1	4679.0
77.5°	3010.3	3011.5	3038.3	3086.3	3191.9	3372.0	3630.0	3949.5	4214.8	4356.9	4266.6
80°	2161.8	2147.1	2174.8	2236.7	2367.2	2573.7	2837.9	3202.6	3497.1	3630.0	3490.3
82.5°	822.4	867.0	937.3	1039.4	1083.5	1313.1	1559.6	1774.0	2022.0	2299.2	2229.7
85°	88.3	99.4	124.8	154.8	195.4	270.3	373.6	510.0	628.6	738.7	655.8
87.5°	33.0	33.8	37.6	43.3	44.1	46.0	49.1	57.2	53.4	46.0	37.2
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°	1388.4	1388.4	1388.4	1388.4	1388.4	1388.4	1388.4	1388.4
2.5°	1388.4	1388.8	1388.4	1388.8	1388.8	1387.3	1387.6	1386.9
5°	1388.0	1386.9	1387.3	1387.6	1387.3	1388.0	1386.9	1387.6
7.5°	1386.1	1383.8	1384.6	1384.6	1383.8	1384.9	1384.2	1383.8
10°	1382.3	1379.2	1380.8	1379.9	1379.5	1380.0	1379.9	1379.9
12.5°	1378.8	1376.9	1377.3	1376.9	1376.6	1377.7	1377.3	1377.7
15°	1378.1	1375.0	1374.6	1373.8	1374.1	1375.0	1375.0	1376.2
17.5°	1377.3	1373.4	1373.0	1372.3	1372.7	1374.2	1374.6	1373.8
20°	1379.6	1376.6	1375.7	1375.0	1374.6	1376.6	1376.1	1376.2
22.5°	1390.3	1386.5	1386.1	1383.1	1381.9	1383.1	1382.2	1382.2
25°	1407.6	1403.0	1401.5	1397.2	1394.2	1394.1	1393.0	1392.3
27.5°	1438.7	1431.8	1430.2	1426.8	1422.6	1423.4	1421.0	1420.7
30°	1474.8	1468.7	1463.3	1458.3	1453.3	1451.4	1448.8	1448.4
32.5°	1522.1	1515.2	1508.7	1502.4	1495.5	1492.8	1488.2	1486.0
35°	1580.0	1570.8	1563.2	1558.9	1552.0	1548.6	1545.5	1548.9
37.5°	1661.0	1649.9	1646.1	1641.1	1636.5	1631.1	1632.2	1631.1
40°	1773.2	1763.2	1759.4	1750.5	1749.4	1743.3	1747.1	1743.3
42.5°	1911.7	1893.3	1890.6	1883.7	1881.4	1878.0	1879.5	1876.8
45°	2062.7	2046.2	2043.1	2032.0	2032.4	2024.3	2027.4	2027.4
47.5°	2232.4	2215.1	2200.9	2192.9	2189.8	2184.8	2187.5	2187.1
50°	2407.5	2384.1	2368.3	2352.6	2345.7	2347.5	2342.2	2351.5
52.5°	2595.6	2560.7	2538.4	2523.5	2510.3	2513.0	2513.9	2516.5
55°	2790.2	2745.8	2713.5	2694.0	2682.0	2682.8	2686.2	2689.3
57.5°	2986.1	2930.4	2886.6	2857.5	2849.8	2853.2	2853.2	2852.9
60°	3189.2	3122.4	3066.0	3032.9	3026.1	3024.1	3039.1	3034.1
62.5°	3407.3	3327.1	3268.7	3226.4	3216.5	3223.4	3236.9	3233.8
65°	3696.4	3585.5	3510.3	3468.4	3451.5	3458.4	3476.5	3475.6
67.5°	4069.2	3914.2	3814.7	3761.0	3748.7	3757.1	3767.1	3776.8
70°	4626.8	4405.2	4263.2	4146.8	4097.0	4087.4	4097.3	4097.7
71°	4823.0	4568.4	4342.3	4200.2	4118.4	4083.9	4086.5	4069.2
72.5°	4814.9	4501.2	4236.7	4088.1	3974.4	3946.8	3933.3	3912.6
75°	4490.5	4207.9	3978.3	3816.2	3706.8	3674.3	3650.3	3649.2
77.5°	4072.4	3863.8	3610.8	3439.2	3306.0	3251.8	3227.6	3226.8
80°	3273.7	2961.5	2776.5	2673.1	2512.3	2465.9	2416.7	2398.2
82.5°	1979.7	1547.0	1257.9	1117.8	1040.2	856.7	768.7	727.3
85°	461.1	327.5	225.8	148.2	106.8	84.8	65.3	57.6
87.5°	31.1	24.6	21.9	17.7	13.4	13.0	8.1	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)