

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: P180248

Luminaire Tested: **ICS-E04-LED-E1-5XQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180248
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: ICS-E04-LED-E1-5XQ
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11450 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

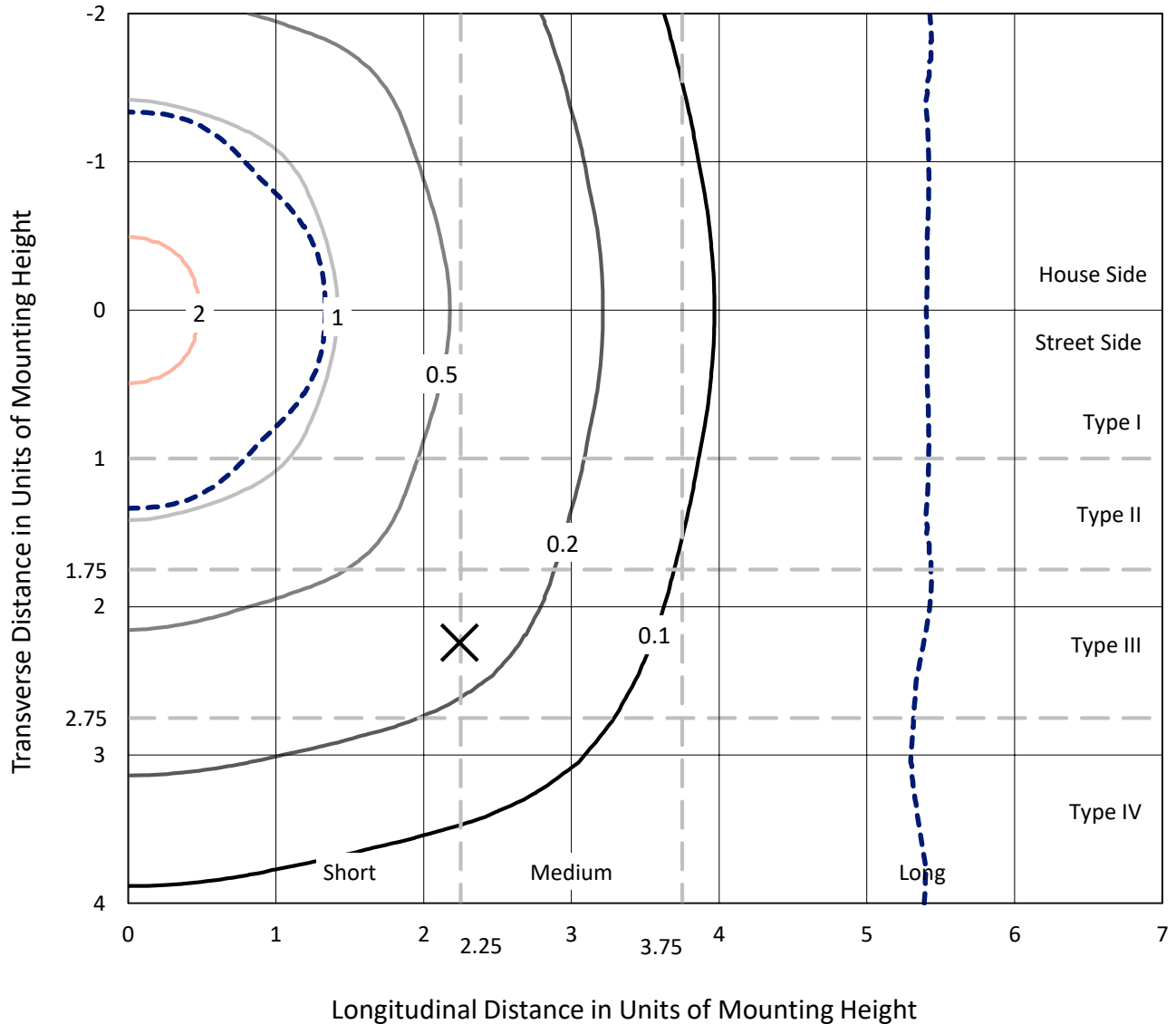
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

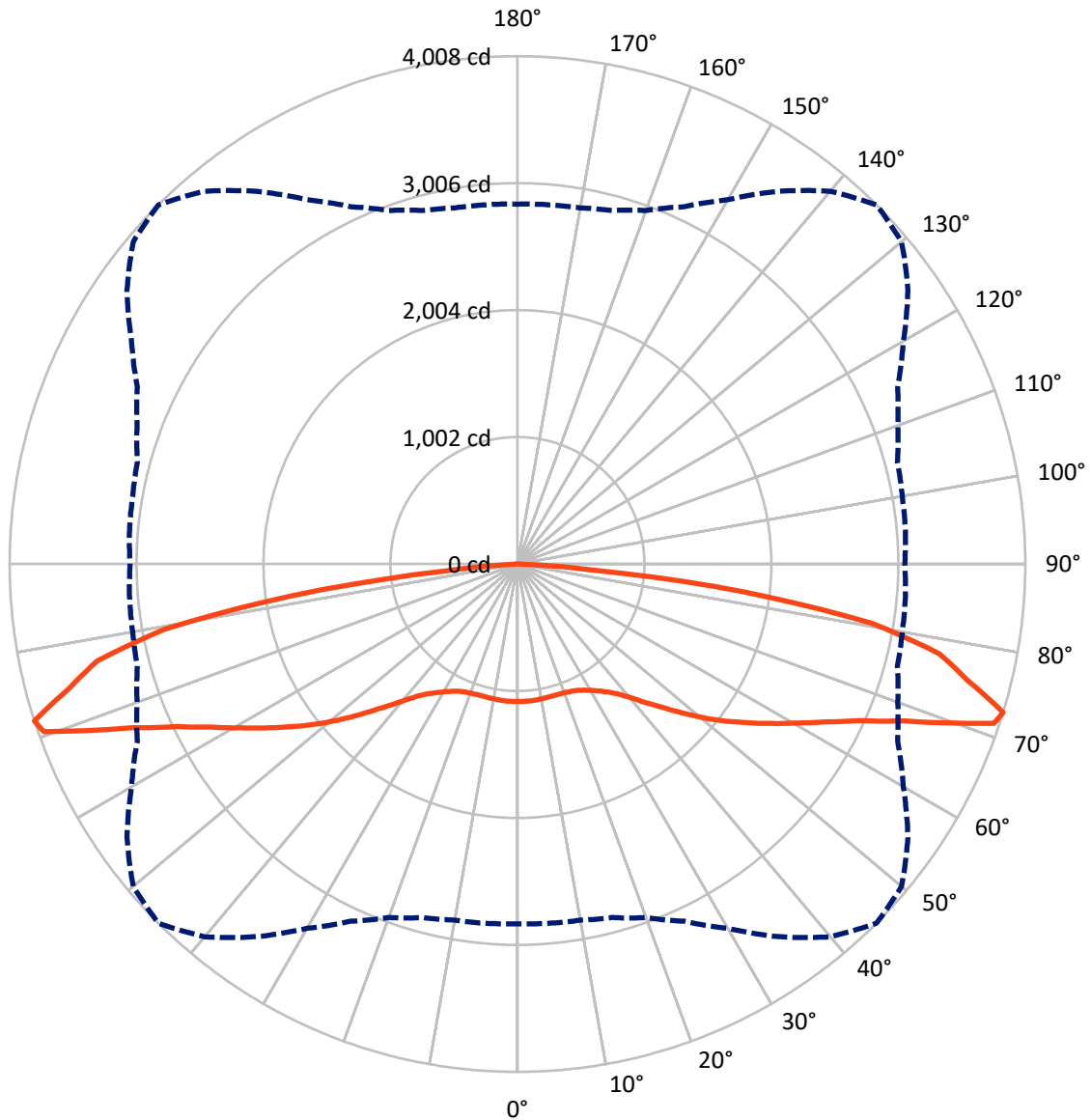
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.7 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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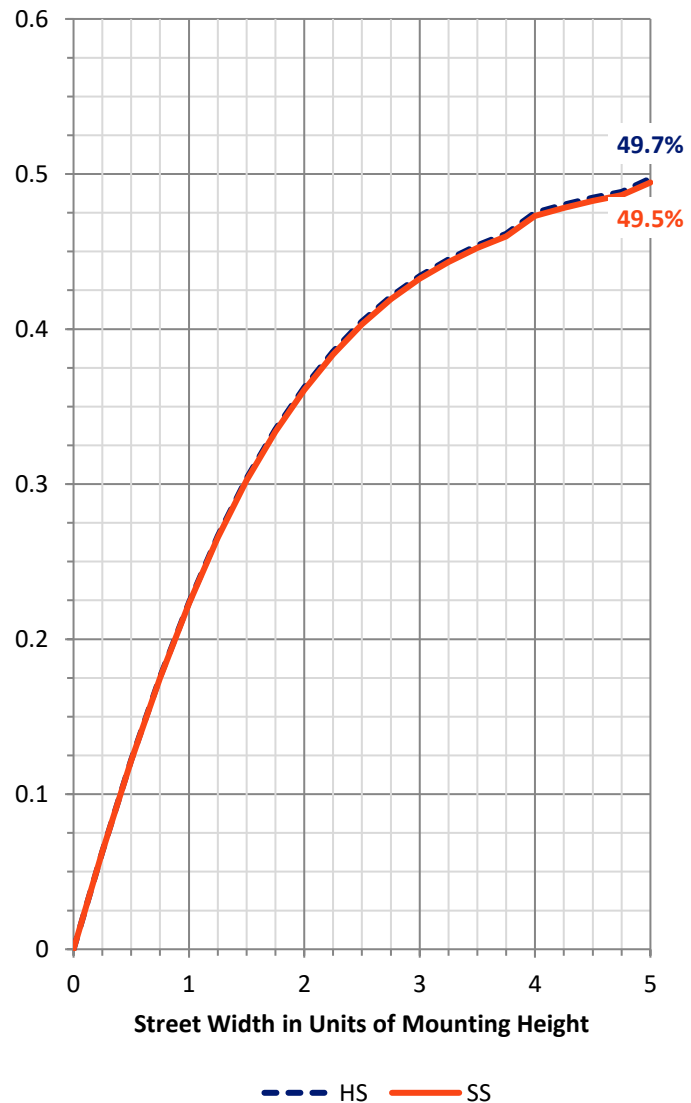
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5725.0	0.0	5725.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5725.0	0.0	5725.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11450.0	0.0	11450.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	0.9
10°-20°	305.9	2.7
20°-30°	512.2	4.5
30°-40°	780.8	6.8
40°-50°	1246.7	10.9
50°-60°	1916.9	16.7
60°-70°	2791.0	24.4
70°-80°	3144.1	27.5
80°-90°	649.0	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°	11450.0	100.0
0°-180°	11450.0	100.0



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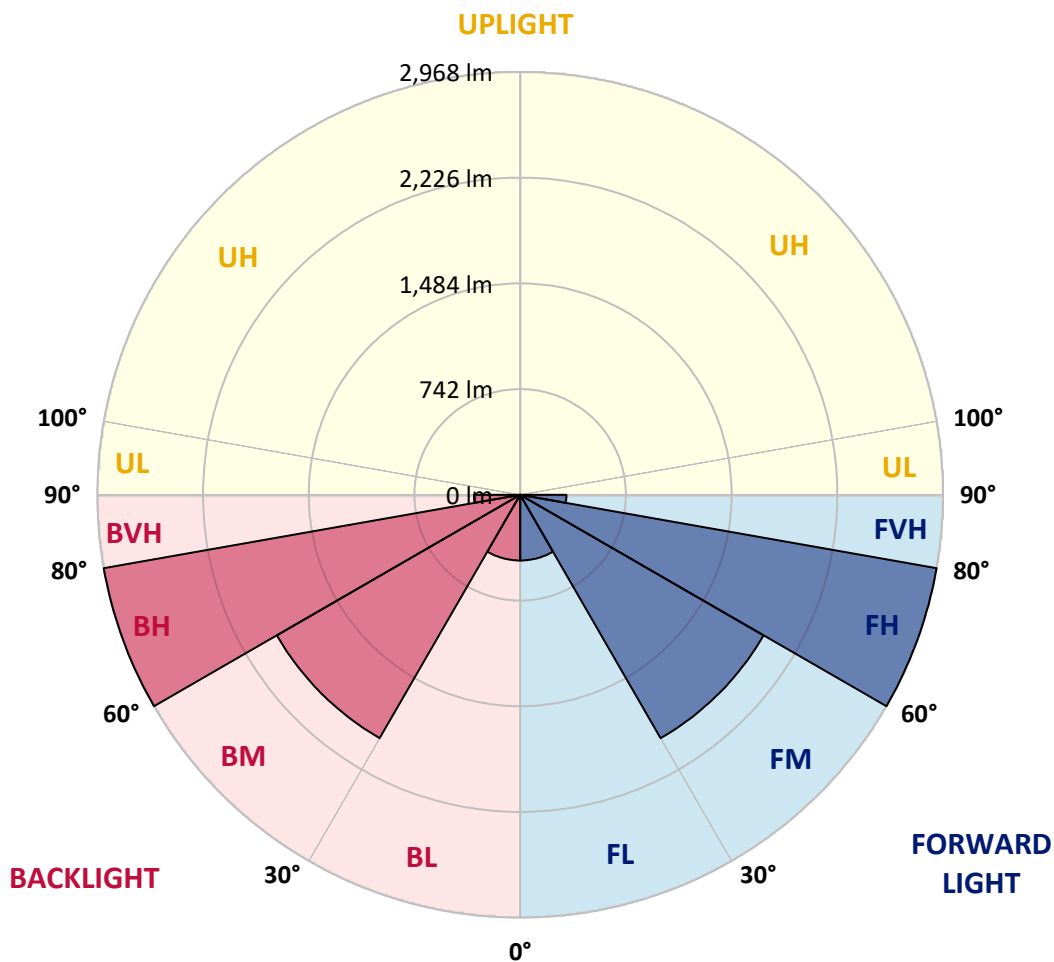
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	460.7	4.0			
FM	(30°-60°)	1972.2	17.2			
FH	(60°-80°)	2967.6	25.9			G2/5000
FVH	(80°-90°)	324.5	2.8			G3/500
BL	(0°-30°)	460.7	4.0	B1/500		
BM	(30°-60°)	1972.2	17.2	B2/2500		
BH	(60°-80°)	2967.6	25.9	B4/5000		G2/5000
BVH	(80°-90°)	324.5	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°	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9
2.5°	1086.7	1087.3	1087.0	1086.4	1086.7	1086.4	1085.8	1085.5	1083.4	1084.6	1086.4
5°	1086.7	1086.1	1085.8	1085.5	1085.5	1086.4	1085.5	1084.6	1084.3	1084.9	1084.0
7.5°	1086.1	1084.9	1084.3	1084.0	1084.3	1084.6	1083.7	1082.5	1083.4	1082.5	1081.3
10°	1084.3	1083.4	1083.7	1082.5	1082.8	1082.5	1081.3	1080.4	1081.0	1080.1	1078.6
12.5°	1084.9	1083.4	1083.1	1082.5	1082.2	1081.9	1080.4	1078.9	1079.2	1078.6	1077.1
15°	1084.9	1084.0	1083.7	1082.5	1082.2	1081.6	1079.8	1079.2	1079.2	1078.3	1076.5
17.5°	1085.5	1084.9	1084.9	1083.4	1082.8	1082.5	1080.4	1079.5	1080.4	1078.6	1077.4
20°	1087.3	1086.7	1087.0	1086.1	1084.9	1084.9	1083.4	1082.8	1083.1	1082.8	1079.5
22.5°	1090.9	1090.9	1091.5	1091.2	1090.9	1091.2	1090.0	1090.0	1090.3	1090.3	1087.6
25°	1101.1	1100.8	1101.4	1101.4	1101.7	1103.8	1102.9	1102.6	1104.1	1104.1	1101.4
27.5°	1120.3	1119.7	1120.3	1120.9	1122.4	1125.1	1124.5	1125.4	1127.8	1127.2	1124.8
30°	1142.5	1141.9	1143.4	1145.2	1146.4	1150.6	1148.8	1153.3	1155.4	1157.2	1155.4
32.5°	1174.9	1174.9	1177.6	1178.8	1181.5	1185.7	1186.3	1189.9	1192.6	1195.6	1193.5
35°	1218.1	1217.5	1219.6	1221.7	1225.0	1228.9	1230.4	1235.2	1239.4	1241.5	1237.6
37.5°	1284.1	1280.8	1284.7	1285.9	1288.6	1289.5	1293.7	1299.7	1304.2	1303.6	1300.9
40°	1373.5	1372.9	1371.4	1369.6	1373.8	1375.3	1375.3	1383.4	1390.6	1389.4	1389.1
42.5°	1477.9	1475.2	1473.4	1473.4	1475.8	1476.4	1485.7	1491.7	1496.8	1498.0	1496.8
45°	1590.1	1587.4	1588.0	1586.8	1587.7	1591.6	1597.0	1608.1	1617.7	1618.0	1612.9
47.5°	1710.7	1702.3	1708.9	1699.6	1705.3	1708.3	1721.8	1738.0	1754.8	1757.8	1753.3
50°	1833.1	1832.2	1831.6	1829.8	1832.5	1839.1	1855.6	1881.1	1897.3	1908.1	1900.9
52.5°	1966.9	1962.4	1960.3	1957.3	1960.0	1972.9	1996.0	2018.2	2047.3	2059.6	2049.7
55°	2097.1	2095.6	2087.8	2087.5	2093.2	2113.3	2138.5	2165.8	2197.3	2211.1	2207.5
57.5°	2230.9	2222.2	2219.8	2216.2	2227.6	2246.5	2277.4	2326.6	2359.3	2374.9	2365.9
60°	2361.7	2355.1	2350.0	2348.8	2356.6	2383.0	2427.4	2486.5	2527.0	2547.4	2533.0
62.5°	2502.1	2497.9	2491.9	2485.0	2501.5	2535.4	2590.6	2656.0	2715.8	2741.0	2719.0
65°	2676.8	2668.0	2661.4	2652.8	2666.2	2708.8	2778.2	2870.3	2950.4	2979.8	2964.2
67.5°	2861.0	2852.9	2853.4	2848.0	2872.0	2931.2	3020.6	3145.7	3253.1	3303.2	3273.8
70°	3021.8	3026.3	3027.5	3049.4	3090.8	3180.8	3329.6	3525.5	3688.4	3764.9	3733.4
71°	2974.4	2984.3	2999.6	3022.4	3093.8	3200.3	3403.4	3640.7	3835.1	3964.7	3921.2
72.5°	2840.0	2846.0	2853.8	2888.6	2969.3	3110.3	3319.4	3590.6	3840.5	4008.2	3957.8
75°	2645.6	2651.2	2654.0	2678.2	2751.8	2874.8	3066.2	3306.8	3527.3	3670.1	3656.0
77.5°	2352.1	2353.0	2374.0	2411.5	2494.0	2634.8	2836.4	3086.0	3293.3	3404.3	3333.8
80°	1689.1	1677.7	1699.3	1747.6	1849.6	2011.0	2217.4	2502.4	2732.6	2836.4	2727.1
82.5°	642.7	677.4	732.4	812.2	846.6	1026.1	1218.6	1386.1	1579.9	1796.5	1742.2
85°	69.0	77.7	97.5	120.9	152.7	211.2	291.9	398.4	491.1	577.2	512.4
87.5°	25.8	26.4	29.4	33.9	34.5	36.0	38.4	44.7	41.7	36.0	29.1
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°	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9	1084.9
2.5°	1084.9	1085.2	1084.9	1085.2	1085.2	1084.0	1084.3	1083.7
5°	1084.6	1083.7	1084.0	1084.3	1084.0	1084.6	1083.7	1084.3
7.5°	1083.1	1081.3	1081.9	1081.9	1081.3	1082.2	1081.6	1081.3
10°	1080.1	1077.7	1078.9	1078.3	1078.0	1078.3	1078.3	1078.3
12.5°	1077.4	1075.9	1076.2	1075.9	1075.6	1076.5	1076.2	1076.5
15°	1076.8	1074.4	1074.1	1073.5	1073.8	1074.4	1074.4	1075.3
17.5°	1076.2	1073.2	1072.9	1072.3	1072.6	1073.8	1074.1	1073.5
20°	1078.0	1075.6	1075.0	1074.4	1074.1	1075.6	1075.3	1075.3
22.5°	1086.4	1083.4	1083.1	1080.7	1079.8	1080.7	1080.1	1080.1
25°	1099.9	1096.3	1095.1	1091.8	1089.4	1089.4	1088.5	1087.9
27.5°	1124.2	1118.8	1117.6	1114.9	1111.6	1112.2	1110.4	1110.1
30°	1152.4	1147.6	1143.4	1139.5	1135.6	1134.1	1132.0	1131.7
32.5°	1189.3	1183.9	1178.8	1174.0	1168.6	1166.5	1162.9	1161.1
35°	1234.6	1227.4	1221.4	1218.1	1212.7	1210.0	1207.6	1210.3
37.5°	1297.9	1289.2	1286.2	1282.3	1278.7	1274.5	1275.4	1274.5
40°	1385.5	1377.7	1374.7	1367.8	1366.9	1362.1	1365.1	1362.1
42.5°	1493.8	1479.4	1477.3	1471.9	1470.1	1467.4	1468.6	1466.5
45°	1611.7	1598.8	1596.4	1587.7	1588.0	1581.7	1584.1	1584.1
47.5°	1744.3	1730.8	1719.7	1713.4	1711.0	1707.1	1709.2	1708.9
50°	1881.1	1862.8	1850.5	1838.2	1832.8	1834.3	1830.1	1837.3
52.5°	2028.1	2000.8	1983.4	1971.7	1961.5	1963.6	1964.2	1966.3
55°	2180.2	2145.4	2120.2	2104.9	2095.6	2096.2	2098.9	2101.3
57.5°	2333.2	2289.7	2255.5	2232.7	2226.7	2229.4	2229.4	2229.1
60°	2491.9	2439.7	2395.6	2369.8	2364.4	2362.9	2374.6	2370.7
62.5°	2662.3	2599.6	2554.0	2521.0	2513.2	2518.6	2529.1	2526.7
65°	2888.3	2801.6	2742.7	2710.0	2696.8	2702.2	2716.4	2715.8
67.5°	3179.6	3058.4	2980.7	2938.7	2929.1	2935.7	2943.5	2951.0
70°	3615.2	3442.1	3331.1	3240.2	3201.2	3193.7	3201.5	3201.8
71°	3768.5	3569.6	3392.9	3281.9	3218.0	3191.0	3193.1	3179.6
72.5°	3762.2	3517.1	3310.4	3194.3	3105.5	3083.9	3073.4	3057.2
75°	3508.7	3287.9	3108.5	2981.9	2896.4	2870.9	2852.2	2851.4
77.5°	3182.0	3019.1	2821.4	2687.2	2583.1	2540.8	2521.9	2521.3
80°	2557.9	2314.0	2169.4	2088.7	1963.0	1926.7	1888.3	1873.9
82.5°	1546.9	1208.8	982.8	873.3	812.7	669.3	600.6	568.2
85°	360.3	255.9	176.4	115.8	83.4	66.3	51.0	45.0
87.5°	24.3	19.2	17.1	13.8	10.5	10.2	6.3	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)