

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: P180203

Luminaire Tested: **ICM-F05-LED-E1-5XQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180203
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-F05-LED-E1-5XQ
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (35) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12211.6 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

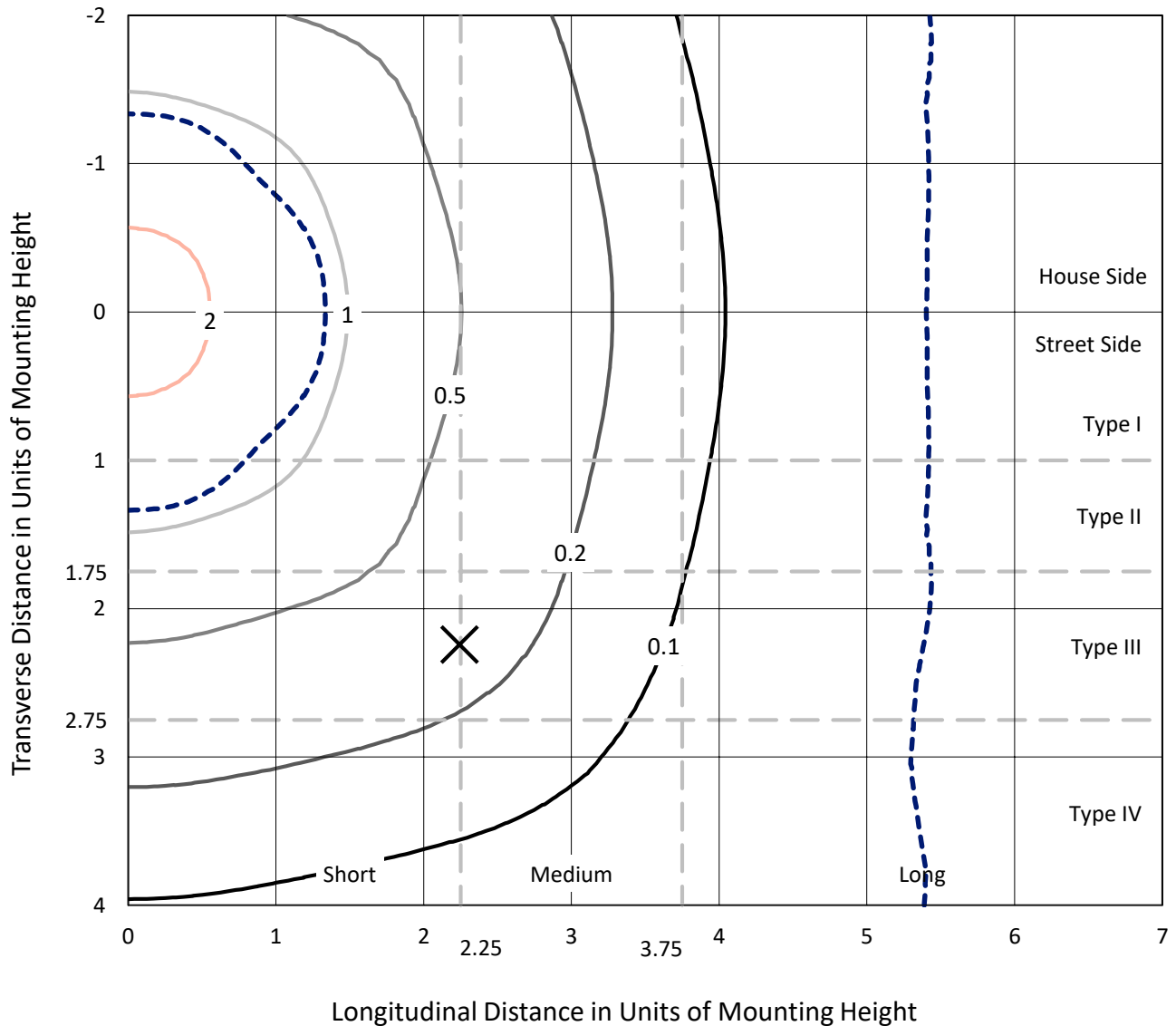
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

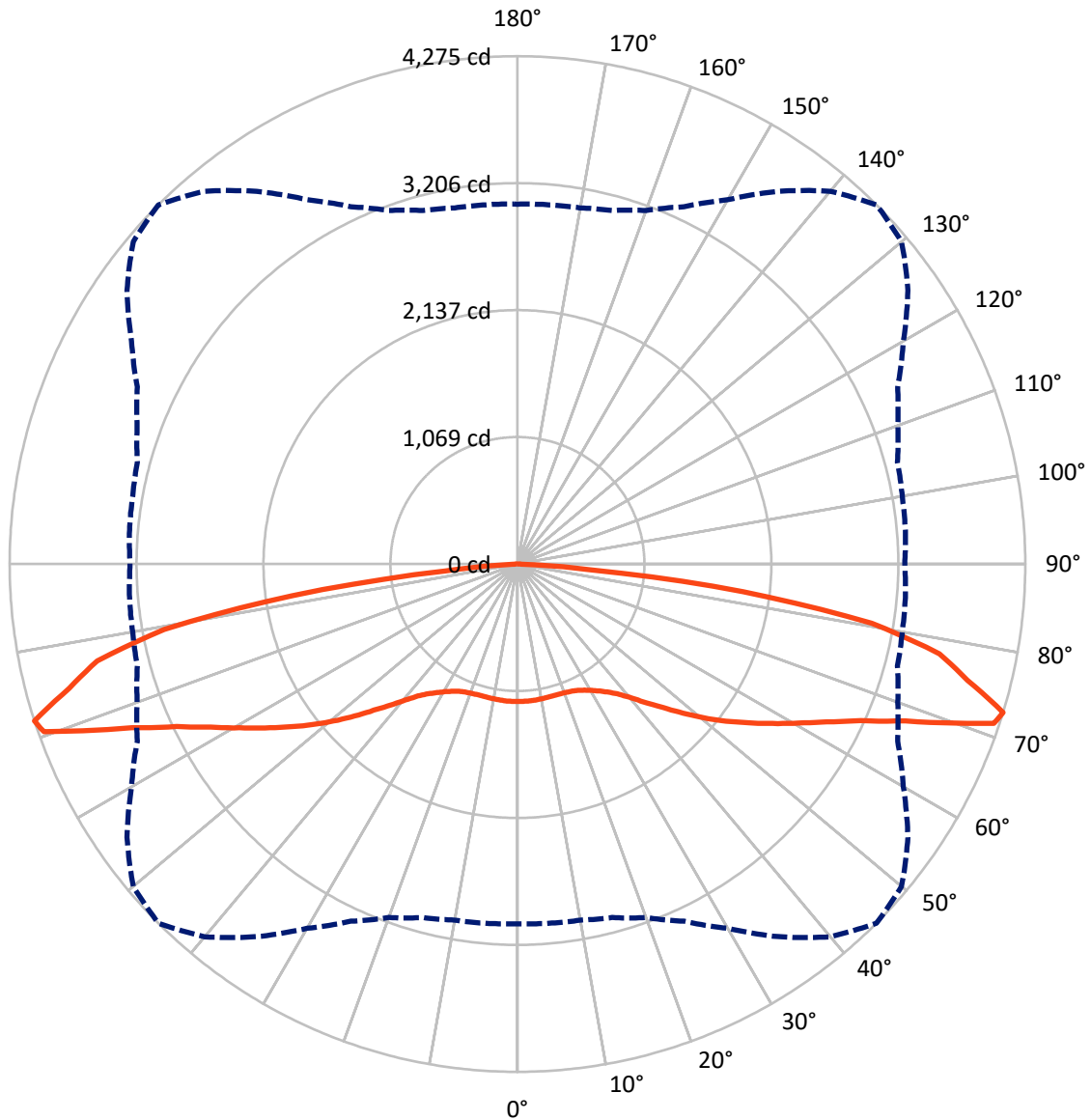
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.9 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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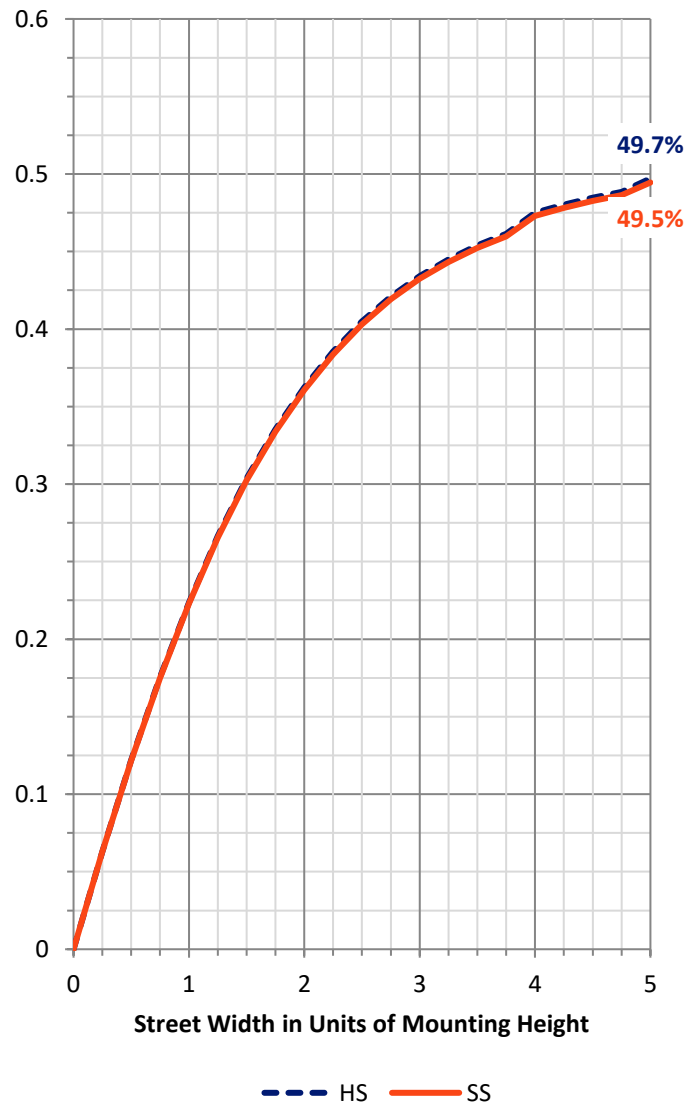
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6105.8	0.0	6105.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6105.8	0.0	6105.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	12211.6	0.0	12211.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	0.9
10°-20°	326.2	2.7
20°-30°	546.2	4.5
30°-40°	832.7	6.8
40°-50°	1329.6	10.9
50°-60°	2044.4	16.7
60°-70°	2976.7	24.4
70°-80°	3353.2	27.5
80°-90°	692.2	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°	12211.6	100.0
0°-180°	12211.6	100.0



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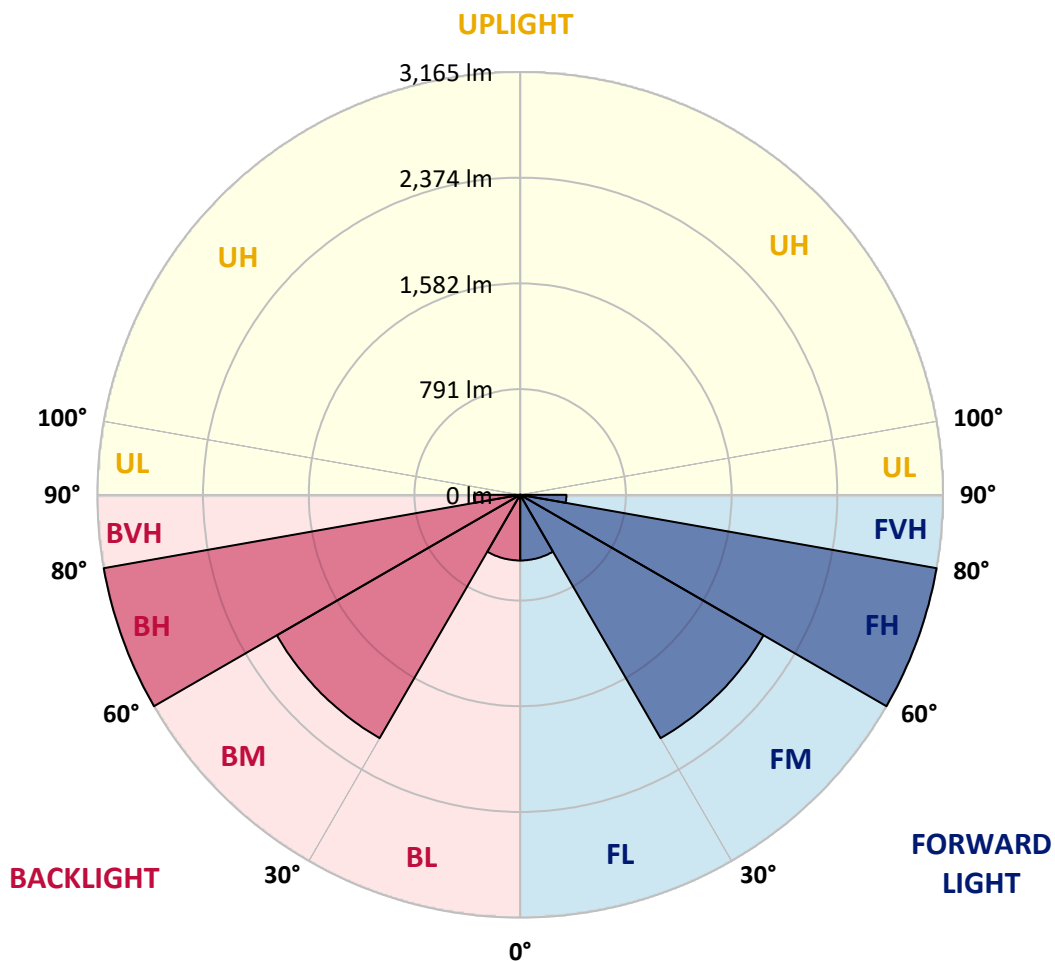
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	491.3	4.0			
FM	(30°-60°)	2103.4	17.2			
FH	(60°-80°)	3165.0	25.9			G2/5000
FVH	(80°-90°)	346.1	2.8			G3/500
BL	(0°-30°)	491.3	4.0	B1/500		
BM	(30°-60°)	2103.4	17.2	B2/2500		
BH	(60°-80°)	3165.0	25.9	B4/5000		G2/5000
BVH	(80°-90°)	346.1	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°	1157.0	1157.0	1157.0	1157.0	1157.0	1157.0	1157.0	1157.0	1157.0	1157.0	1157.0
2.5°	1158.9	1159.5	1159.3	1158.6	1158.9	1158.6	1158.0	1157.6	1155.4	1156.7	1158.6
5°	1158.9	1158.3	1158.0	1157.6	1157.7	1158.6	1157.6	1156.7	1156.4	1157.0	1156.1
7.5°	1158.3	1157.0	1156.4	1156.1	1156.4	1156.7	1155.7	1154.4	1155.4	1154.4	1153.2
10°	1156.4	1155.4	1155.7	1154.4	1154.8	1154.4	1153.2	1152.2	1152.8	1151.9	1150.3
12.5°	1157.0	1155.4	1155.1	1154.4	1154.1	1153.8	1152.2	1150.6	1150.9	1150.3	1148.7
15°	1157.0	1156.1	1155.7	1154.4	1154.1	1153.5	1151.5	1150.9	1150.9	1150.0	1148.1
17.5°	1157.7	1157.0	1157.0	1155.4	1154.8	1154.4	1152.2	1151.3	1152.2	1150.3	1149.0
20°	1159.6	1158.9	1159.3	1158.3	1157.0	1157.0	1155.4	1154.8	1155.1	1154.8	1151.3
22.5°	1163.4	1163.4	1164.1	1163.7	1163.4	1163.7	1162.4	1162.4	1162.8	1162.8	1159.9
25°	1174.3	1174.0	1174.6	1174.6	1174.9	1177.1	1176.2	1175.9	1177.5	1177.5	1174.6
27.5°	1194.8	1194.1	1194.8	1195.4	1197.0	1199.9	1199.3	1200.2	1202.8	1202.1	1199.6
30°	1218.4	1217.9	1219.4	1221.4	1222.6	1227.1	1225.2	1230.0	1232.2	1234.1	1232.2
32.5°	1253.0	1253.0	1255.9	1257.1	1260.1	1264.6	1265.2	1269.0	1271.8	1275.1	1272.8
35°	1299.2	1298.4	1300.7	1302.9	1306.4	1310.6	1312.2	1317.3	1321.8	1324.1	1319.8
37.5°	1369.4	1366.0	1370.1	1371.4	1374.3	1375.3	1379.7	1386.1	1390.9	1390.3	1387.4
40°	1464.8	1464.2	1462.6	1460.7	1465.1	1466.8	1466.8	1475.5	1483.1	1481.8	1481.5
42.5°	1576.2	1573.3	1571.4	1571.4	1574.0	1574.5	1584.5	1590.9	1596.3	1597.6	1596.3
45°	1695.8	1692.9	1693.6	1692.4	1693.3	1697.5	1703.3	1715.0	1725.3	1725.6	1720.2
47.5°	1824.6	1815.5	1822.5	1812.7	1818.7	1822.0	1836.3	1853.6	1871.5	1874.7	1869.9
50°	1955.0	1954.1	1953.5	1951.5	1954.4	1961.4	1979.0	2006.2	2023.5	2035.0	2027.4
52.5°	2097.8	2092.9	2090.7	2087.5	2090.4	2104.2	2128.8	2152.5	2183.5	2196.7	2186.1
55°	2236.7	2235.0	2226.7	2226.4	2232.5	2253.9	2280.8	2309.9	2343.5	2358.2	2354.3
57.5°	2379.4	2370.1	2367.5	2363.6	2375.8	2395.9	2428.9	2481.4	2516.3	2532.9	2523.4
60°	2518.8	2511.7	2506.3	2505.1	2513.4	2541.6	2588.9	2651.9	2695.1	2716.9	2701.5
62.5°	2668.6	2664.1	2657.7	2650.3	2667.9	2704.1	2763.0	2832.7	2896.4	2923.3	2899.9
65°	2854.8	2845.5	2838.5	2829.2	2843.6	2889.0	2962.9	3061.2	3146.6	3178.0	3161.3
67.5°	3051.3	3042.6	3043.3	3037.5	3063.1	3126.2	3221.4	3354.9	3469.5	3522.9	3491.6
70°	3222.7	3227.6	3228.9	3252.2	3296.4	3392.4	3551.1	3760.0	3933.8	4015.4	3981.8
71°	3172.2	3182.8	3199.1	3223.5	3299.6	3413.1	3629.8	3882.9	4090.3	4228.4	4182.1
72.5°	3028.9	3035.3	3043.6	3080.7	3166.8	3317.1	3540.2	3829.4	4096.0	4274.8	4221.0
75°	2821.5	2827.6	2830.5	2856.4	2934.8	3066.0	3270.2	3526.7	3761.9	3914.3	3899.2
77.5°	2508.6	2509.5	2531.9	2571.9	2659.9	2810.1	3025.0	3291.2	3512.4	3630.7	3555.6
80°	1801.5	1789.3	1812.3	1863.8	1972.7	2144.8	2364.9	2668.9	2914.3	3025.0	2908.6
82.5°	685.4	722.5	781.0	866.1	903.0	1094.3	1299.7	1478.2	1685.0	1916.0	1858.1
85°	73.6	82.9	104.0	128.9	162.9	225.3	311.4	424.9	523.7	615.6	546.5
87.5°	27.5	28.1	31.3	36.2	36.8	38.4	41.0	47.7	44.5	38.4	31.1
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°	1157.0	1157.0	1157.0	1157.0	1157.0	1157.0	1157.0	1157.0
2.5°	1157.0	1157.4	1157.0	1157.3	1157.4	1156.1	1156.4	1155.7
5°	1156.7	1155.7	1156.1	1156.4	1156.1	1156.7	1155.7	1156.4
7.5°	1155.1	1153.2	1153.9	1153.9	1153.2	1154.1	1153.5	1153.2
10°	1151.9	1149.3	1150.6	1150.0	1149.7	1150.0	1150.0	1150.0
12.5°	1149.0	1147.4	1147.7	1147.4	1147.1	1148.1	1147.7	1148.1
15°	1148.4	1145.9	1145.5	1144.9	1145.2	1145.9	1145.9	1146.8
17.5°	1147.7	1144.6	1144.2	1143.6	1143.9	1145.2	1145.5	1144.9
20°	1149.7	1147.1	1146.4	1145.9	1145.5	1147.1	1146.8	1146.8
22.5°	1158.6	1155.4	1155.1	1152.6	1151.5	1152.6	1151.9	1151.8
25°	1173.0	1169.1	1167.9	1164.4	1161.8	1161.8	1160.8	1160.2
27.5°	1198.9	1193.1	1191.9	1189.0	1185.5	1186.1	1184.2	1183.9
30°	1229.0	1223.9	1219.4	1215.3	1211.1	1209.5	1207.3	1206.9
32.5°	1268.4	1262.6	1257.1	1252.0	1246.3	1244.1	1240.2	1238.3
35°	1316.7	1309.0	1302.6	1299.1	1293.3	1290.4	1287.9	1290.8
37.5°	1384.2	1374.9	1371.7	1367.5	1363.7	1359.3	1360.2	1359.2
40°	1477.6	1469.3	1466.1	1458.8	1457.8	1452.7	1455.9	1452.7
42.5°	1593.1	1577.8	1575.5	1569.8	1567.8	1564.9	1566.3	1564.0
45°	1718.9	1705.1	1702.5	1693.2	1693.6	1686.9	1689.4	1689.5
47.5°	1860.3	1846.0	1834.1	1827.4	1824.8	1820.7	1822.9	1822.5
50°	2006.2	1986.7	1973.6	1960.5	1954.7	1956.3	1951.8	1959.5
52.5°	2163.0	2133.9	2115.4	2102.9	2092.0	2094.2	2094.9	2097.1
55°	2325.2	2288.1	2261.2	2244.9	2235.0	2235.6	2238.5	2241.1
57.5°	2488.4	2442.1	2405.6	2381.2	2374.8	2377.7	2377.7	2377.4
60°	2657.7	2602.1	2555.0	2527.5	2521.7	2520.1	2532.6	2528.4
62.5°	2839.5	2772.6	2723.9	2688.8	2680.4	2686.2	2697.3	2694.8
65°	3080.4	2987.9	2925.2	2890.3	2876.2	2882.1	2897.0	2896.4
67.5°	3391.1	3261.8	3178.9	3134.2	3123.9	3131.0	3139.3	3147.3
70°	3855.7	3671.0	3552.7	3455.6	3414.2	3406.2	3414.4	3414.7
71°	4019.2	3807.0	3618.5	3500.2	3432.0	3403.2	3405.4	3391.1
72.5°	4012.5	3751.1	3530.6	3406.7	3312.0	3289.0	3277.8	3260.5
75°	3742.1	3506.5	3315.3	3180.2	3089.0	3061.8	3042.0	3041.0
77.5°	3393.7	3219.9	3009.0	2866.1	2755.0	2709.9	2689.7	2689.0
80°	2728.1	2467.9	2313.7	2227.6	2093.6	2054.9	2013.9	1998.5
82.5°	1649.8	1289.2	1048.2	931.4	866.8	713.9	640.6	606.0
85°	384.3	272.9	188.1	123.5	88.9	70.7	54.4	48.0
87.5°	26.0	20.5	18.2	14.7	11.2	10.9	6.7	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)