

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: P595373

Luminaire Tested: **IST-PA1F-735-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1F-735-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10483 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

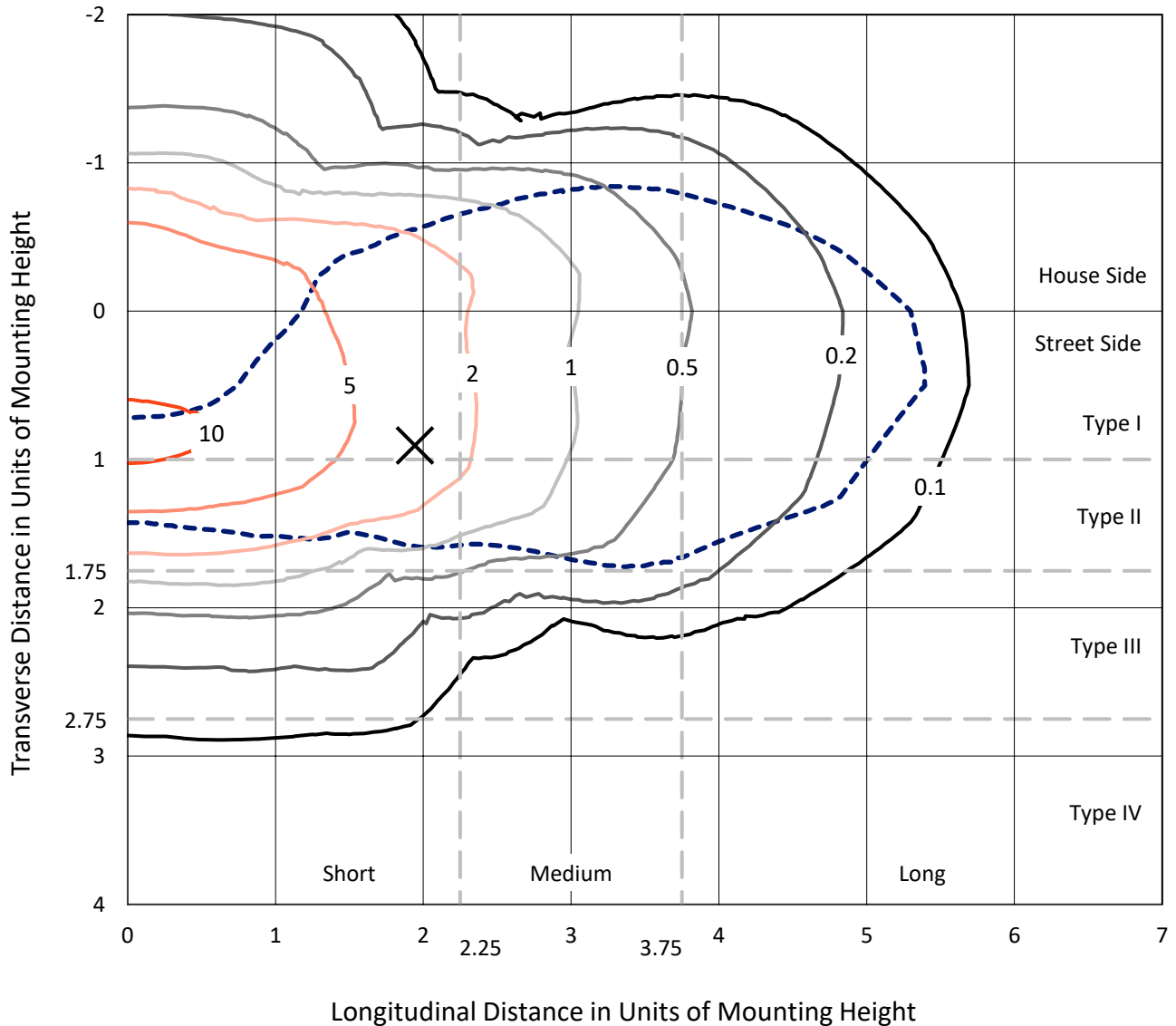
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

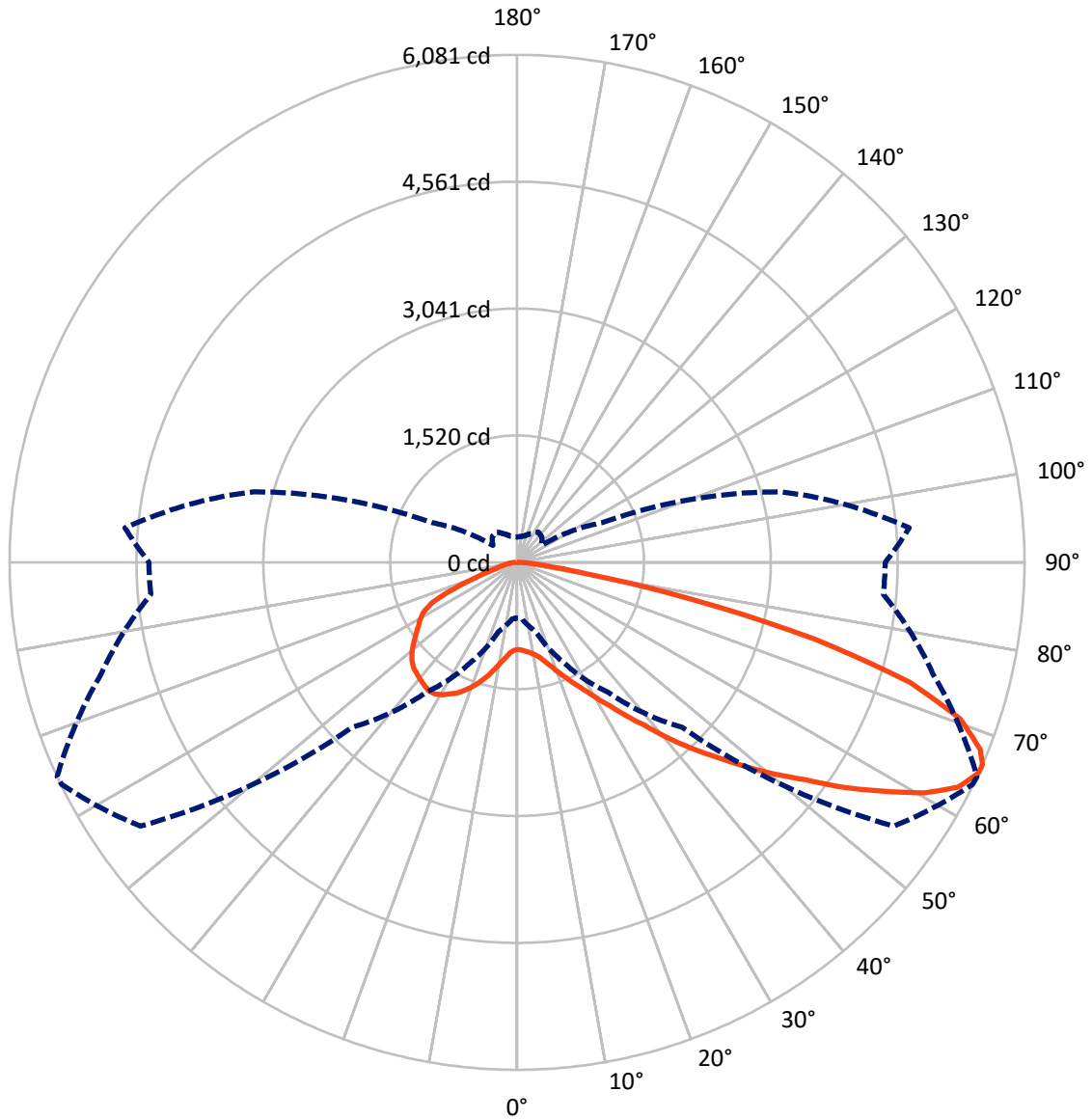
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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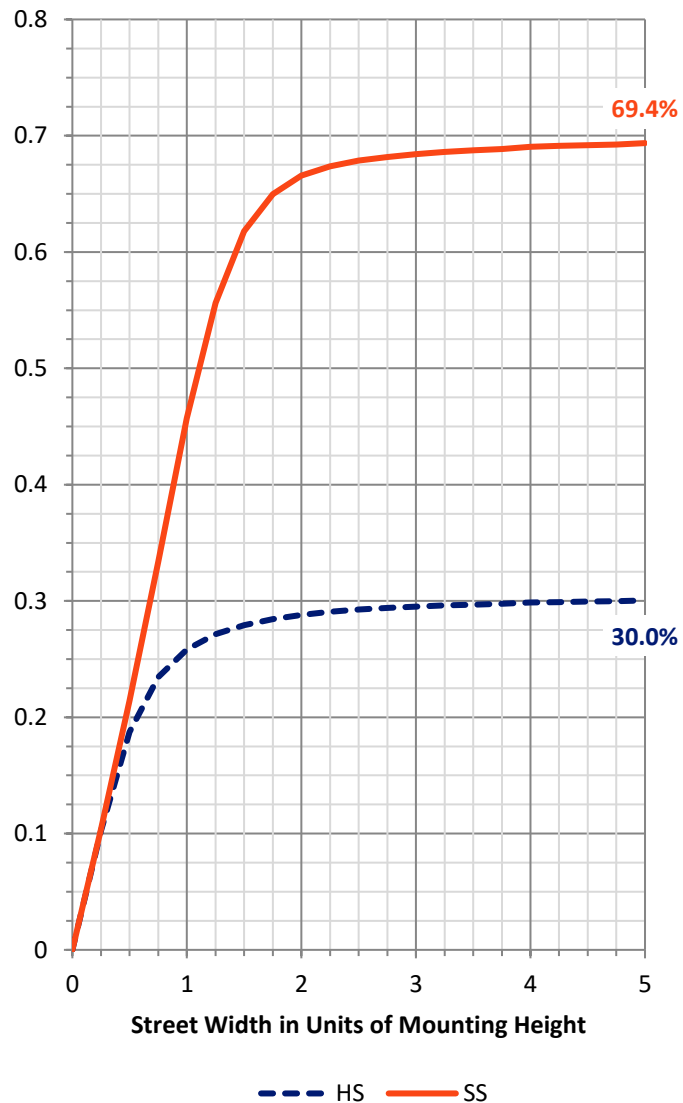
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3183.1	0.0	3183.1
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	7299.9	0.0	7299.9
	% Fixture	69.6	0.0	69.6
Total	Lumens	10483.0	0.0	10483.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	1.0
10°-20°	371.5	3.5
20°-30°	727.6	6.9
30°-40°	1189.0	11.3
40°-50°	1887.2	18.0
50°-60°	2427.2	23.2
60°-70°	2188.9	20.9
70°-80°	1357.6	13.0
80°-90°	227.5	2.2
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°	10483.0	100.0
0°-180°	10483.0	100.0

Coefficient of Utilization



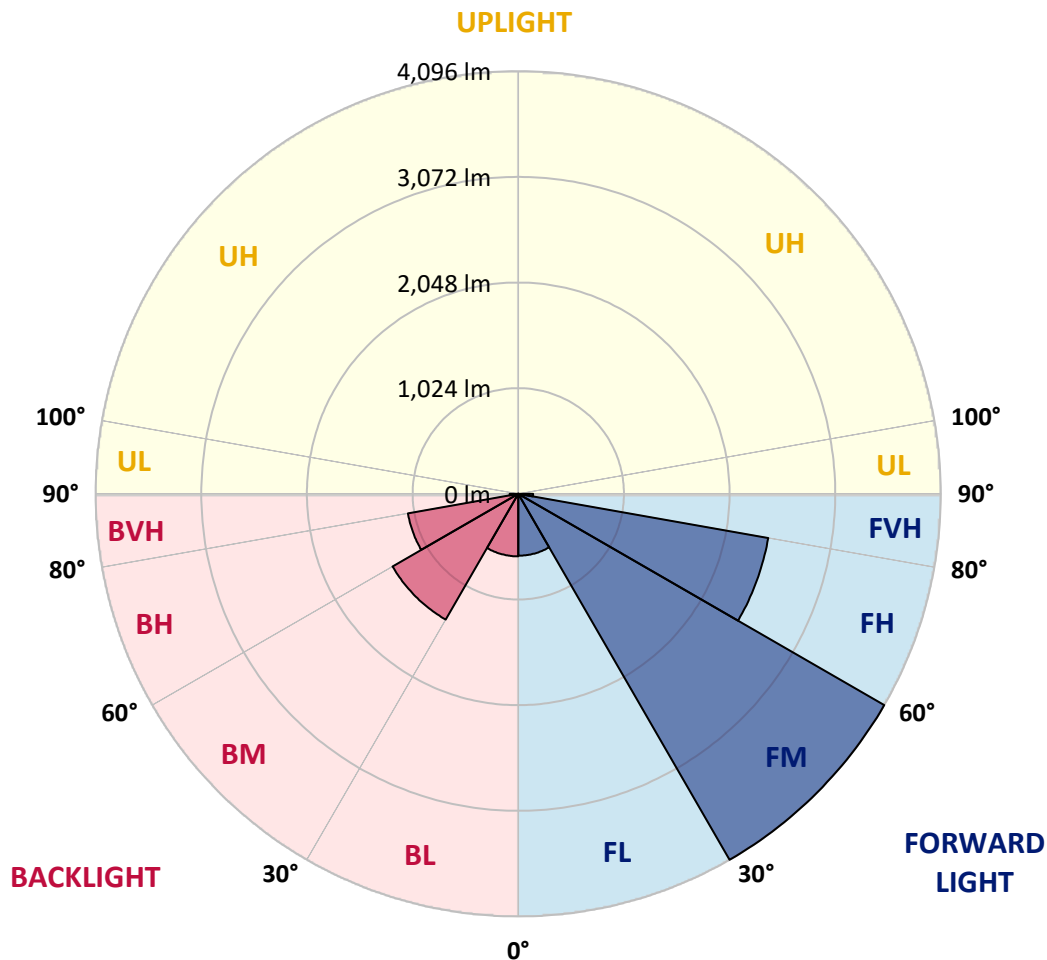
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.5	5.7			
FM (30°-60°)	4096.2	39.1			
FH (60°-80°)	2460.4	23.5			G2/5000
FVH (80°-90°)	143.9	1.4			G2/225
BL (0°-30°)	606.3	5.8	B2/1000		
BM (30°-60°)	1407.1	13.4	B2/2500		
BH (60°-80°)	1086.1	10.4	B3/2500		G3/2500
BVH (80°-90°)	83.6	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1044.9	1044.9	1044.9	1044.9	1044.9	1044.9	1044.9	1044.9	1044.9	1044.9	1044.9
2.5°	1047.4	1050.0	1052.5	1047.4	1052.5	1055.1	1050.0	1050.0	1052.5	1047.4	1047.4
5°	1039.8	1042.4	1047.4	1050.0	1060.2	1065.2	1067.8	1067.8	1070.3	1067.8	1070.3
7.5°	1019.5	1019.5	1029.7	1034.7	1050.0	1067.8	1078.0	1093.2	1093.2	1095.8	1103.4
10°	1039.8	1039.8	1047.4	1055.1	1067.8	1083.0	1098.3	1116.1	1121.2	1139.0	1149.1
12.5°	1070.3	1075.4	1085.6	1095.8	1111.0	1128.8	1141.5	1159.3	1161.9	1179.7	1200.0
15°	1121.2	1126.3	1131.3	1144.1	1164.4	1187.3	1210.2	1222.9	1228.0	1238.1	1253.4
17.5°	1197.4	1202.5	1205.1	1212.7	1228.0	1258.5	1291.5	1301.7	1306.8	1306.8	1319.5
20°	1327.1	1324.6	1319.5	1304.2	1304.2	1332.2	1378.0	1395.7	1400.8	1390.7	1383.0
22.5°	1477.1	1474.6	1454.2	1436.4	1423.7	1428.8	1474.6	1505.1	1502.5	1482.2	1451.7
25°	1672.9	1678.0	1644.9	1599.1	1561.0	1550.8	1578.8	1609.3	1614.4	1576.3	1525.4
27.5°	1906.8	1899.1	1881.3	1807.6	1733.9	1688.1	1703.4	1736.4	1739.0	1698.3	1616.9
30°	2181.3	2168.6	2122.9	2046.6	1932.2	1868.6	1855.9	1883.9	1891.5	1822.9	1705.9
32.5°	2486.4	2473.7	2415.2	2298.3	2173.7	2066.9	2026.3	2064.4	2059.3	1980.5	1817.8
35°	2855.1	2852.5	2745.7	2600.8	2443.2	2300.8	2244.9	2244.9	2260.1	2143.2	1960.2
37.5°	3348.3	3368.6	3211.0	2984.7	2763.5	2572.9	2478.8	2473.7	2476.2	2349.1	2120.3
40°	3793.2	3785.6	3694.0	3483.0	3160.1	2916.1	2776.2	2745.7	2753.4	2590.7	2328.8
42.5°	4050.0	4057.6	4034.7	3943.2	3661.0	3353.4	3114.4	3033.0	3035.6	2832.2	2527.1
45°	4210.1	4217.8	4215.2	4261.0	4149.1	3859.3	3518.6	3330.5	3320.3	3106.8	2761.0
47.5°	4301.7	4306.7	4339.8	4433.9	4525.4	4459.3	3966.1	3661.0	3640.6	3363.5	2994.9
50°	4200.0	4202.5	4334.7	4558.4	4782.2	4983.0	4423.7	3988.9	3983.9	3648.3	3223.7
52.5°	3666.1	3711.8	4004.2	4472.0	4972.8	5354.2	4952.5	4375.4	4332.2	3917.8	3452.5
55°	2992.3	3012.7	3348.3	3943.2	4937.2	5583.0	5351.6	4792.3	4761.8	4217.8	3676.2
57.5°	2336.4	2356.8	2755.9	3251.7	4393.2	5570.3	5633.8	5242.3	5173.7	4479.6	3900.0
60°	1507.6	1571.2	2033.9	2644.0	3556.7	5183.9	5776.2	5674.5	5611.0	4738.9	4090.6
62.5°	1024.6	1034.7	1324.6	1960.2	2661.8	4212.7	5766.0	5941.5	5931.3	4998.3	4281.3
65°	666.1	681.3	856.8	1327.1	1904.2	2796.6	5511.8	6071.1	6081.3	5158.4	4405.9
66°	564.4	574.6	709.3	1116.1	1667.8	2216.9	5288.1	6061.0	6081.3	5232.2	4444.0
67.5°	490.7	498.3	566.9	823.7	1362.7	1594.1	4705.9	5926.2	5984.7	5300.8	4492.3
70°	422.0	432.2	495.8	561.9	973.7	930.5	2979.6	5580.5	5638.9	5333.8	4522.8
72.5°	348.3	355.9	419.5	508.5	706.8	625.4	1314.4	4777.1	4924.5	5211.8	4474.5
75°	274.6	279.7	338.1	424.6	541.5	488.1	572.0	3503.4	3688.9	4594.0	4286.4
77.5°	213.6	216.1	261.9	330.5	495.8	378.8	353.4	1705.9	2158.5	3549.1	3775.4
80°	147.5	152.5	193.2	249.2	363.6	300.0	236.4	666.1	846.6	2356.8	2862.7
82.5°	96.6	99.2	132.2	188.1	241.5	287.3	155.1	322.9	355.9	1085.6	1240.7
85°	66.1	66.1	94.1	116.9	165.3	190.7	101.7	170.3	185.6	411.9	150.0
87.5°	33.1	33.1	45.8	61.0	78.8	73.7	61.0	61.0	61.0	134.7	43.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1044.9	1044.9	1044.9	1044.9	1044.9	1044.9	1044.9	1044.9	1044.9	1044.9	1044.9
2.5°	1050.0	1050.0	1052.5	1055.1	1057.6	1057.6	1060.2	1060.2	1057.6	1060.2	1062.7
5°	1072.9	1075.4	1080.5	1088.1	1100.8	1113.5	1126.3	1133.9	1141.5	1144.1	1139.0
7.5°	1108.5	1113.5	1131.3	1151.7	1172.0	1202.5	1220.3	1230.5	1235.6	1240.7	1235.6
10°	1154.2	1164.4	1189.8	1225.4	1261.0	1299.1	1319.5	1334.7	1337.3	1342.4	1337.3
12.5°	1207.6	1225.4	1263.5	1314.4	1357.6	1395.7	1411.0	1400.8	1378.0	1367.8	1365.2
15°	1271.2	1289.0	1342.4	1405.9	1456.8	1474.6	1451.7	1418.6	1393.2	1390.7	1388.1
17.5°	1327.1	1352.5	1426.3	1492.4	1540.7	1522.9	1461.9	1441.5	1433.9	1444.1	1441.5
20°	1398.3	1418.6	1492.4	1573.7	1599.1	1530.5	1487.3	1474.6	1466.9	1466.9	1461.9
22.5°	1456.8	1472.0	1561.0	1650.0	1634.7	1535.6	1505.1	1479.6	1454.2	1451.7	1444.1
25°	1525.4	1530.5	1624.6	1721.2	1639.8	1540.7	1487.3	1444.1	1418.6	1411.0	1413.5
27.5°	1589.0	1601.7	1683.0	1769.5	1627.1	1512.7	1426.3	1370.3	1332.2	1329.6	1329.6
30°	1670.3	1670.3	1744.1	1822.9	1599.1	1441.5	1327.1	1245.8	1215.2	1212.7	1207.6
32.5°	1761.8	1746.6	1817.8	1861.0	1538.1	1344.9	1192.4	1100.8	1052.5	1042.4	1034.7
35°	1889.0	1855.9	1906.8	1868.6	1477.1	1207.6	1022.0	917.8	882.2	866.9	866.9
37.5°	2036.4	1988.1	2041.5	1845.7	1383.0	1047.4	844.1	765.2	727.1	704.2	711.9
40°	2209.3	2148.3	2178.8	1820.3	1281.3	869.5	696.6	648.3	602.5	572.0	572.0
42.5°	2412.7	2311.0	2333.9	1794.9	1136.4	714.4	602.5	569.5	533.9	503.4	511.0
45°	2608.5	2509.3	2486.4	1769.5	983.9	610.2	564.4	541.5	508.5	472.9	472.9
47.5°	2834.7	2707.6	2621.2	1723.7	833.9	577.1	574.6	541.5	478.0	427.1	422.0
50°	3048.3	2931.3	2743.2	1655.1	750.0	605.1	572.0	493.2	432.2	399.1	396.6
52.5°	3274.5	3152.5	2842.3	1571.2	706.8	592.4	526.3	452.5	406.8	373.7	366.1
55°	3498.3	3434.7	2931.3	1489.8	638.1	551.7	488.1	427.1	378.8	348.3	343.2
57.5°	3752.5	3727.1	3007.6	1408.5	531.4	500.8	460.2	409.3	363.6	340.7	338.1
60°	3973.7	4062.7	3099.1	1347.4	452.5	462.7	447.5	406.8	373.7	348.3	348.3
62.5°	4207.6	4385.6	3180.5	1268.6	394.1	439.8	450.0	404.2	361.0	338.1	338.1
65°	4411.0	4716.1	3264.4	1123.7	353.4	422.0	442.4	376.3	325.4	307.6	302.5
66°	4497.4	4810.1	3289.8	1034.7	338.1	409.3	429.7	361.0	310.2	294.9	292.4
67.5°	4599.1	4957.6	3320.3	844.1	315.3	381.4	401.7	338.1	284.7	274.6	269.5
70°	4741.5	4988.1	3302.5	551.7	274.6	328.0	358.5	302.5	254.2	246.6	239.0
72.5°	4756.7	4779.6	3124.5	348.3	239.0	282.2	315.3	272.0	223.7	216.1	211.0
75°	4505.0	4235.6	2644.0	249.2	211.0	249.2	277.1	236.4	185.6	175.4	170.3
77.5°	3846.6	3361.0	1901.7	185.6	183.0	213.6	231.4	205.9	155.1	147.5	144.9
80°	2700.0	2280.5	953.4	139.8	144.9	178.0	193.2	172.9	129.7	119.5	114.4
82.5°	1093.2	968.6	328.0	104.2	109.3	134.7	165.3	142.4	99.2	86.4	76.3
85°	124.6	211.0	142.4	71.2	73.7	91.5	111.9	86.4	58.5	48.3	40.7
87.5°	25.4	45.8	50.8	28.0	25.4	35.6	50.8	30.5	20.3	7.6	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)