

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: P595377

Luminaire Tested: **IST-PA1F-735-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
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-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10381 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

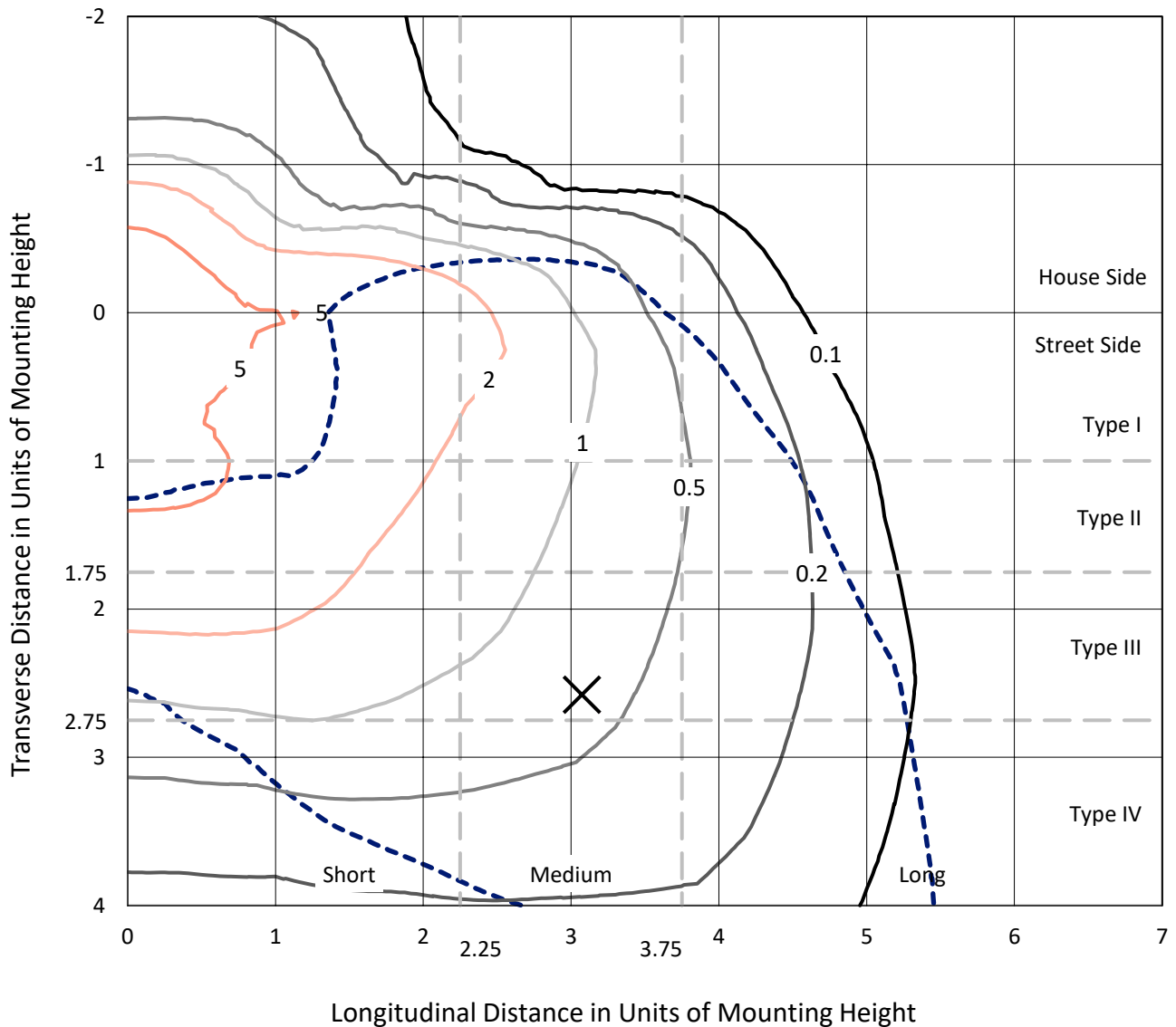
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

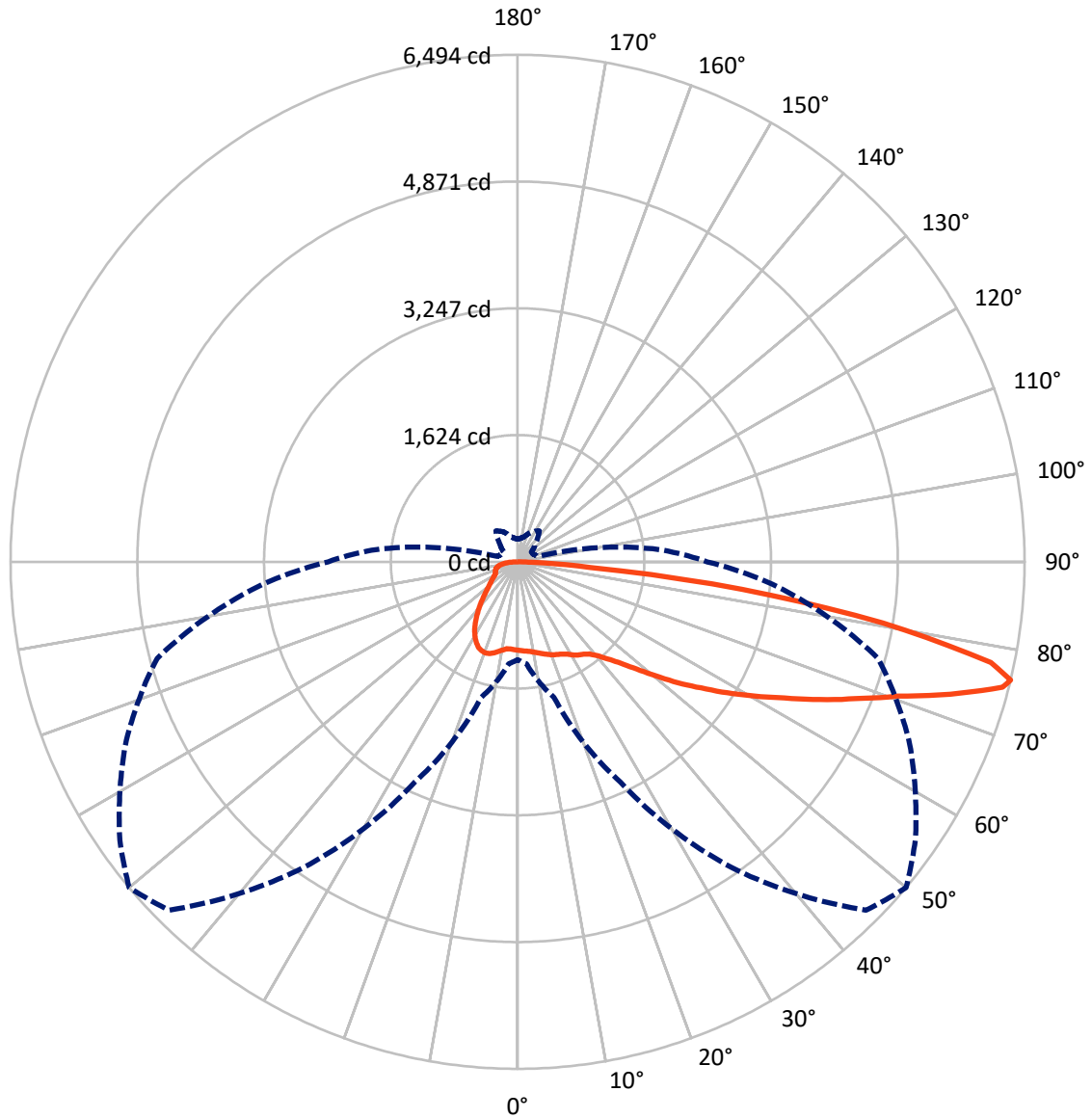
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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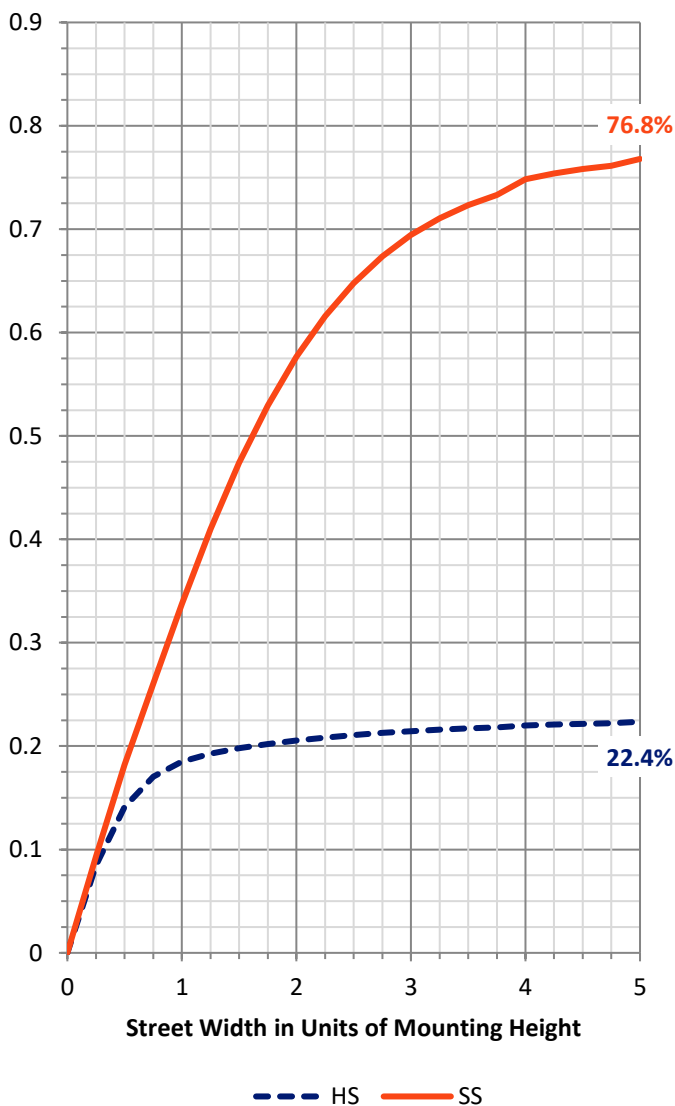
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2374.8	0.0	2374.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8006.2	0.0	8006.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	10381.0	0.0	10381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	1.1
10°-20°	345.4	3.3
20°-30°	583.5	5.6
30°-40°	799.8	7.7
40°-50°	1178.0	11.3
50°-60°	1853.0	17.9
60°-70°	2667.3	25.7
70°-80°	2425.3	23.4
80°-90°	418.7	4.0
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°	10381.0	100.0
0°-180°	10381.0	100.0

Coefficient of Utilization

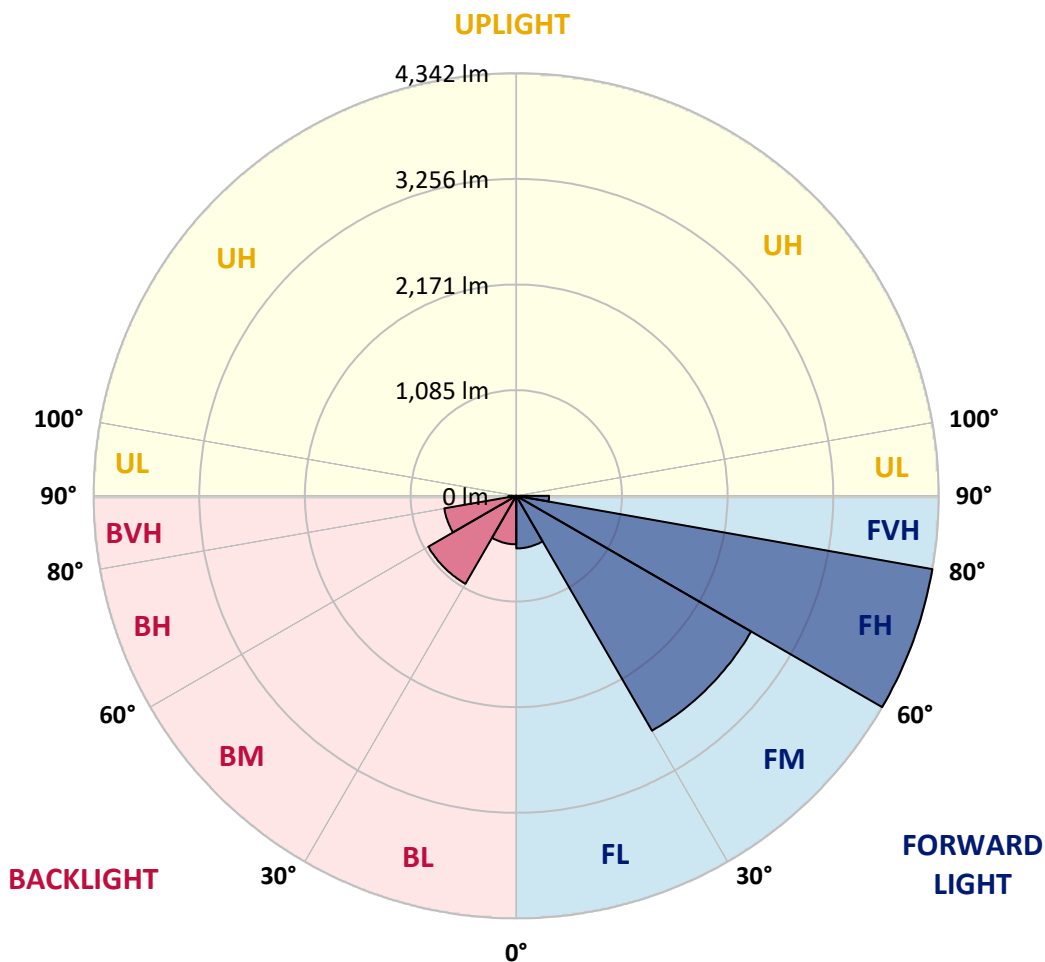


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	540.3	5.2			
FM (30°-60°)	2787.1	26.8			
FH (60°-80°)	4341.8	41.8			G2/5000
FVH (80°-90°)	337.0	3.2			G3/500
BL (0°-30°)	498.5	4.8	B1/500		
BM (30°-60°)	1043.7	10.1	B2/2500		
BH (60°-80°)	750.8	7.2	B2/1000		G2/1000
BVH (80°-90°)	81.7	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5
2.5°	1156.9	1156.9	1159.5	1154.4	1154.4	1141.7	1141.7	1139.1	1134.0	1131.5	1126.4
5°	1200.2	1200.2	1192.5	1179.8	1172.2	1156.9	1149.3	1144.2	1134.0	1121.3	1108.6
7.5°	1245.9	1240.8	1235.8	1215.4	1200.2	1172.2	1159.5	1151.8	1131.5	1113.7	1106.1
10°	1294.2	1286.6	1273.9	1248.5	1225.6	1192.5	1177.3	1167.1	1144.2	1129.0	1111.2
12.5°	1322.2	1322.2	1307.0	1276.4	1245.9	1205.2	1197.6	1184.9	1162.0	1141.7	1123.9
15°	1350.2	1352.7	1337.5	1301.9	1266.3	1235.8	1223.0	1215.4	1190.0	1159.5	1136.6
17.5°	1378.1	1375.6	1360.3	1319.7	1281.5	1253.6	1245.9	1235.8	1210.3	1182.4	1159.5
20°	1398.5	1393.4	1388.3	1337.5	1299.3	1281.5	1271.4	1263.7	1238.3	1207.8	1177.3
22.5°	1403.6	1408.7	1403.6	1342.6	1312.0	1291.7	1289.2	1281.5	1261.2	1233.2	1202.7
25°	1406.1	1408.7	1416.3	1357.8	1329.8	1314.6	1309.5	1304.4	1289.2	1266.3	1225.6
27.5°	1418.8	1421.4	1421.4	1368.0	1352.7	1342.6	1337.5	1337.5	1329.8	1301.9	1261.2
30°	1421.4	1423.9	1429.0	1393.4	1388.3	1380.7	1383.2	1380.7	1368.0	1337.5	1291.7
32.5°	1439.2	1441.7	1454.4	1408.7	1413.7	1421.4	1423.9	1421.4	1395.9	1370.5	1332.4
35°	1497.7	1495.1	1505.3	1446.8	1441.7	1444.3	1451.9	1449.3	1439.2	1416.3	1390.9
37.5°	1685.8	1685.8	1657.8	1535.8	1497.7	1492.6	1497.7	1510.4	1512.9	1492.6	1472.2
40°	2016.4	1998.6	1983.3	1718.9	1596.8	1566.3	1581.6	1589.2	1609.5	1609.5	1609.5
42.5°	2357.1	2359.6	2354.5	2003.7	1774.8	1698.5	1701.1	1718.9	1762.1	1769.7	1792.6
45°	2659.7	2677.5	2715.6	2334.2	2036.7	1866.3	1848.5	1866.3	1927.4	1978.2	2036.7
47.5°	2896.1	2875.8	2959.7	2680.0	2336.7	2095.2	2049.4	2054.5	2138.4	2219.8	2311.3
50°	3099.6	3104.6	3142.8	3033.5	2715.6	2354.5	2293.5	2283.4	2402.9	2489.3	2644.4
52.5°	3328.4	3313.1	3369.1	3343.7	3084.3	2672.4	2575.8	2545.3	2674.9	2797.0	2964.8
55°	3437.7	3453.0	3567.4	3631.0	3432.7	2957.2	2850.4	2860.5	2997.9	3127.5	3361.5
57.5°	3631.0	3646.2	3778.5	3910.7	3742.9	3259.8	3165.7	3165.7	3320.8	3465.7	3826.8
60°	3895.4	3898.0	4032.7	4261.6	4014.9	3552.2	3491.1	3488.6	3656.4	3824.2	4376.0
62.5°	4012.4	4042.9	4243.8	4541.3	4370.9	3910.7	3839.5	3859.8	4009.9	4205.6	4988.8
65°	3854.7	3920.9	4340.4	4729.4	4688.8	4284.5	4256.5	4284.5	4376.0	4587.0	5637.2
67.5°	3333.5	3422.5	4162.4	4856.6	4943.0	4716.7	4676.0	4671.0	4729.4	4965.9	6046.6
70°	3064.0	3117.4	3692.0	4904.9	5146.4	5154.1	5154.1	5121.0	5113.4	5286.3	6084.7
72.5°	2522.4	2578.3	3114.8	4635.4	5339.7	5738.9	5797.4	5675.3	5487.2	5451.6	5446.5
75°	1797.7	1838.4	2301.2	3646.2	5093.0	6300.8	6417.8	6181.3	5657.5	5090.5	3971.7
76°	1253.6	1312.0	1797.7	3114.8	4782.8	6311.0	6494.1	6219.5	5543.1	4780.3	3272.5
77.5°	635.7	656.0	1040.0	2092.6	4002.2	6021.1	6199.1	5891.5	5044.7	3862.4	2077.4
80°	241.6	249.2	371.2	762.8	2196.9	4676.0	4744.7	4330.2	3338.6	1650.2	747.6
82.5°	127.1	132.2	208.5	376.3	902.7	2570.7	2901.2	2415.6	1309.5	495.8	218.7
85°	63.6	68.7	122.1	228.8	447.5	803.5	930.6	879.8	434.8	188.2	81.4
87.5°	25.4	30.5	61.0	101.7	180.5	157.6	175.4	226.3	139.8	89.0	28.0
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°	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5
2.5°	1126.4	1123.9	1126.4	1123.9	1126.4	1126.4	1129.0	1123.9	1123.9	1129.0	1121.3
5°	1108.6	1106.1	1108.6	1113.7	1116.2	1121.3	1131.5	1129.0	1134.0	1139.1	1141.7
7.5°	1101.0	1098.5	1106.1	1108.6	1116.2	1126.4	1141.7	1151.8	1156.9	1167.1	1162.0
10°	1108.6	1108.6	1118.8	1126.4	1139.1	1151.8	1164.6	1174.7	1187.4	1195.1	1192.5
12.5°	1121.3	1118.8	1136.6	1146.8	1164.6	1177.3	1187.4	1192.5	1202.7	1212.9	1210.3
15°	1134.0	1136.6	1162.0	1182.4	1202.7	1207.8	1210.3	1205.2	1210.3	1215.4	1215.4
17.5°	1159.5	1162.0	1190.0	1212.9	1230.7	1225.6	1212.9	1200.2	1200.2	1202.7	1205.2
20°	1179.8	1184.9	1218.0	1238.3	1248.5	1228.1	1207.8	1192.5	1184.9	1187.4	1184.9
22.5°	1202.7	1212.9	1245.9	1256.1	1240.8	1215.4	1190.0	1169.6	1169.6	1172.2	1172.2
25°	1230.7	1235.8	1258.6	1253.6	1225.6	1187.4	1167.1	1159.5	1156.9	1159.5	1162.0
27.5°	1256.1	1258.6	1271.4	1235.8	1182.4	1141.7	1134.0	1136.6	1139.1	1141.7	1144.2
30°	1289.2	1294.2	1281.5	1210.3	1129.0	1083.2	1083.2	1098.5	1103.5	1111.2	1108.6
32.5°	1329.8	1334.9	1296.8	1177.3	1060.3	1014.5	1017.1	1040.0	1055.2	1060.3	1062.9
35°	1398.5	1388.3	1307.0	1131.5	986.6	930.6	933.2	961.1	981.5	989.1	984.0
37.5°	1482.4	1479.9	1322.2	1073.0	895.0	844.2	846.7	859.4	879.8	882.3	884.9
40°	1622.2	1601.9	1347.6	996.7	803.5	755.2	750.1	757.7	755.2	760.3	762.8
42.5°	1823.1	1769.7	1380.7	910.3	722.1	671.3	666.2	653.5	638.2	623.0	615.3
45°	2059.6	1975.7	1421.4	821.3	638.2	592.5	579.7	564.5	534.0	500.9	490.7
47.5°	2364.7	2204.5	1467.1	732.3	559.4	523.8	513.6	490.7	455.1	417.0	409.4
50°	2677.5	2474.1	1512.9	658.6	495.8	475.5	465.3	442.4	396.7	361.1	353.4
52.5°	3041.1	2741.0	1561.2	592.5	439.9	439.9	432.3	396.7	353.4	320.4	315.3
55°	3460.6	3015.7	1637.5	528.9	399.2	409.4	399.2	363.6	322.9	300.0	297.5
57.5°	3961.5	3364.0	1734.1	460.2	363.6	371.2	371.2	345.8	317.8	302.6	300.0
60°	4465.0	3717.4	1795.2	409.4	335.6	343.3	358.5	345.8	328.0	320.4	317.8
62.5°	4948.1	4078.5	1690.9	366.2	307.7	330.6	368.7	371.2	353.4	356.0	356.0
65°	5309.2	4353.1	1368.0	328.0	289.9	338.2	399.2	401.7	371.2	363.6	361.1
67.5°	5433.8	4429.4	920.5	302.6	279.7	343.3	434.8	424.6	371.2	356.0	348.4
70°	5197.3	4149.7	597.5	279.7	264.4	338.2	462.8	437.3	368.7	345.8	335.6
72.5°	4358.2	3539.5	399.2	259.4	249.2	333.1	480.6	437.3	361.1	328.0	317.8
75°	3025.8	2418.1	297.5	233.9	226.3	325.5	485.7	429.7	343.3	307.7	300.0
76°	2428.3	1813.0	269.5	223.8	216.1	320.4	483.1	422.1	330.6	297.5	289.9
77.5°	1533.3	1042.5	226.3	206.0	200.9	310.2	472.9	404.3	312.8	279.7	272.1
80°	536.5	381.4	172.9	167.8	170.4	287.3	445.0	368.7	277.2	246.6	236.5
82.5°	213.6	175.4	129.7	129.7	134.8	246.6	401.7	325.5	241.6	203.4	188.2
85°	83.9	76.3	91.5	91.5	96.6	200.9	335.6	254.3	165.3	127.1	122.1
87.5°	25.4	35.6	40.7	43.2	45.8	101.7	190.7	111.9	73.7	53.4	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

(END OF REPORT)