

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: P595382

Luminaire Tested: **IST-PA1F-740-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595382
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-740-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 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: 11253 lumens
Efficiency: N/A
Efficacy: 120.4 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

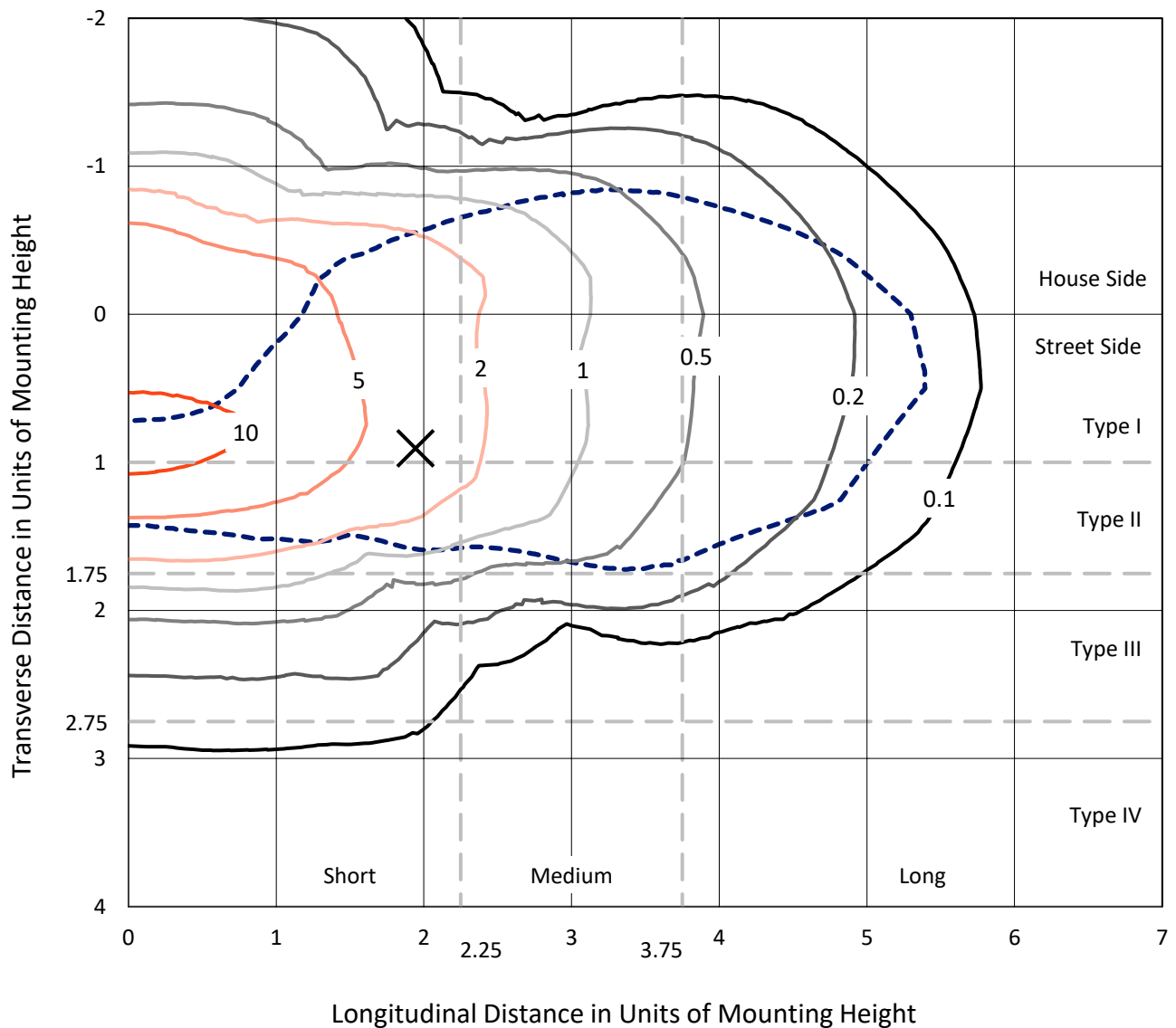
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

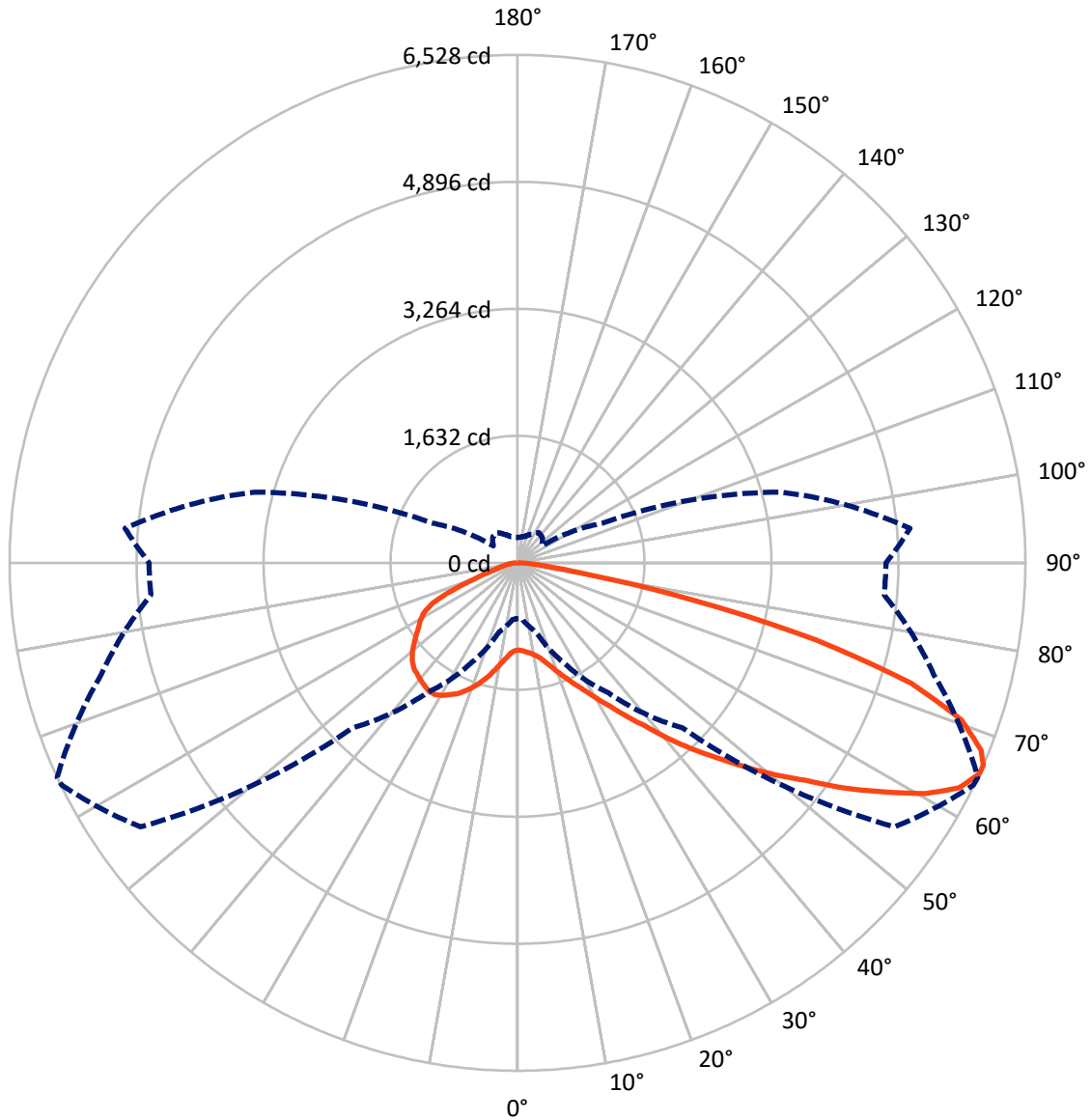
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 12.4 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	3416.9	0.0	3416.9
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	7836.1	0.0	7836.1
	% Fixture	69.6	0.0	69.6
Total	Lumens	11253.0	0.0	11253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	1.0
10°-20°	398.8	3.5
20°-30°	781.1	6.9
30°-40°	1276.3	11.3
40°-50°	2025.8	18.0
50°-60°	2605.5	23.2
60°-70°	2349.6	20.9
70°-80°	1457.3	13.0
80°-90°	244.2	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°	11253.0	100.0
0°-180°	11253.0	100.0

Coefficient of Utilization

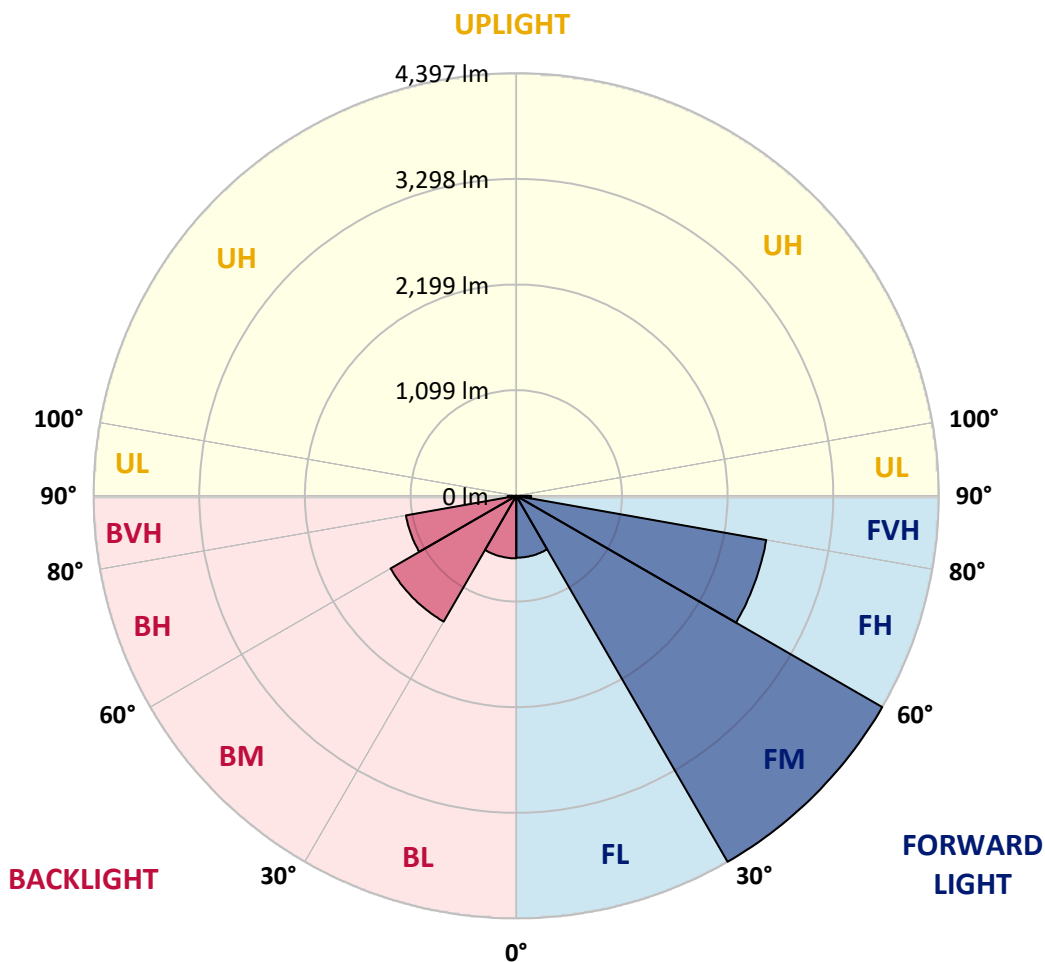


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	643.5	5.7			
FM (30°-60°)	4397.1	39.1			
FH (60°-80°)	2641.1	23.5			G2/5000
FVH (80°-90°)	154.5	1.4			G2/225
BL (0°-30°)	650.8	5.8	B2/1000		
BM (30°-60°)	1510.5	13.4	B2/2500		
BH (60°-80°)	1165.9	10.4	B3/2500		G3/2500
BVH (80°-90°)	89.7	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1121.7	1121.7	1121.7	1121.7	1121.7	1121.7	1121.7	1121.7	1121.7	1121.7	1121.7
2.5°	1124.4	1127.1	1129.8	1124.4	1129.8	1132.6	1127.1	1127.1	1129.8	1124.4	1124.4
5°	1116.2	1118.9	1124.4	1127.1	1138.0	1143.5	1146.2	1146.2	1148.9	1146.2	1148.9
7.5°	1094.4	1094.4	1105.3	1110.7	1127.1	1146.2	1157.1	1173.5	1173.5	1176.2	1184.4
10°	1116.2	1116.2	1124.4	1132.6	1146.2	1162.6	1179.0	1198.1	1203.5	1222.6	1233.5
12.5°	1148.9	1154.4	1165.3	1176.2	1192.6	1211.7	1225.4	1244.5	1247.2	1266.3	1288.1
15°	1203.5	1209.0	1214.4	1228.1	1249.9	1274.5	1299.0	1312.7	1318.2	1329.1	1345.4
17.5°	1285.4	1290.9	1293.6	1301.8	1318.2	1350.9	1386.4	1397.3	1402.8	1402.8	1416.4
20°	1424.6	1421.9	1416.4	1400.0	1400.0	1430.0	1479.2	1498.3	1503.7	1492.8	1484.6
22.5°	1585.6	1582.9	1561.0	1541.9	1528.3	1533.7	1582.9	1615.6	1612.9	1591.1	1558.3
25°	1795.7	1801.2	1765.7	1716.6	1675.7	1664.7	1694.8	1727.5	1733.0	1692.0	1637.5
27.5°	2046.8	2038.6	2019.5	1940.4	1861.2	1812.1	1828.5	1864.0	1866.7	1823.0	1735.7
30°	2341.6	2327.9	2278.8	2196.9	2074.1	2005.9	1992.2	2022.3	2030.4	1956.8	1831.2
32.5°	2669.1	2655.4	2592.6	2467.1	2333.4	2218.8	2175.1	2216.0	2210.6	2126.0	1951.3
35°	3064.8	3062.0	2947.4	2791.9	2622.7	2469.8	2409.8	2409.8	2426.2	2300.6	2104.1
37.5°	3594.2	3616.0	3446.8	3204.0	2966.5	2761.8	2660.9	2655.4	2658.1	2521.7	2276.1
40°	4071.8	4063.6	3965.4	3738.9	3392.3	3130.3	2980.2	2947.4	2955.6	2780.9	2499.8
42.5°	4347.4	4355.6	4331.1	4232.8	3929.9	3599.7	3343.1	3255.8	3258.5	3040.2	2712.7
45°	4519.4	4527.6	4524.8	4574.0	4453.9	4142.8	3777.1	3575.1	3564.2	3334.9	2963.8
47.5°	4617.6	4623.1	4658.6	4759.5	4857.8	4786.8	4257.4	3929.9	3908.1	3610.6	3214.9
50°	4508.5	4511.2	4653.1	4893.3	5133.4	5349.0	4748.6	4281.9	4276.5	3916.2	3460.5
52.5°	3935.3	3984.5	4298.3	4800.5	5338.1	5747.5	5316.3	4696.8	4650.4	4205.5	3706.1
55°	3212.1	3234.0	3594.2	4232.8	5299.9	5993.1	5744.7	5144.3	5111.6	4527.6	3946.3
57.5°	2508.0	2529.9	2958.3	3490.5	4715.9	5979.4	6047.7	5627.4	5553.7	4808.7	4186.4
60°	1618.4	1686.6	2183.3	2838.3	3818.0	5564.6	6200.5	6091.3	6023.1	5087.0	4391.1
62.5°	1099.8	1110.7	1421.9	2104.1	2857.4	4522.1	6189.6	6377.9	6367.0	5365.4	4595.8
65°	715.0	731.4	919.7	1424.6	2044.1	3002.0	5916.7	6517.1	6528.0	5537.3	4729.5
66°	605.9	616.8	761.4	1198.1	1790.3	2379.8	5676.5	6506.2	6528.0	5616.5	4770.5
67.5°	526.7	534.9	608.6	884.2	1462.8	1711.1	5051.5	6361.5	6424.3	5690.2	4822.3
70°	453.0	463.9	532.2	603.1	1045.2	998.8	3198.5	5990.4	6053.1	5725.6	4855.1
72.5°	373.9	382.1	450.3	545.8	758.7	671.4	1410.9	5128.0	5286.2	5594.6	4803.2
75°	294.7	300.2	363.0	455.8	581.3	524.0	614.0	3760.7	3959.9	4931.5	4601.2
77.5°	229.2	232.0	281.1	354.8	532.2	406.6	379.3	1831.2	2317.0	3809.8	4052.7
80°	158.3	163.7	207.4	267.5	390.3	322.0	253.8	715.0	908.8	2529.9	3073.0
82.5°	103.7	106.4	141.9	202.0	259.3	308.4	166.5	346.6	382.1	1165.3	1331.8
85°	71.0	71.0	101.0	125.5	177.4	204.7	109.2	182.8	199.2	442.1	161.0
87.5°	35.5	35.5	49.1	65.5	84.6	79.1	65.5	65.5	65.5	144.6	46.4
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°	1121.7	1121.7	1121.7	1121.7	1121.7	1121.7	1121.7	1121.7	1121.7	1121.7	1121.7
2.5°	1127.1	1127.1	1129.8	1132.6	1135.3	1135.3	1138.0	1138.0	1135.3	1138.0	1140.8
5°	1151.7	1154.4	1159.9	1168.1	1181.7	1195.3	1209.0	1217.2	1225.4	1228.1	1222.6
7.5°	1189.9	1195.3	1214.4	1236.3	1258.1	1290.9	1310.0	1320.9	1326.3	1331.8	1326.3
10°	1239.0	1249.9	1277.2	1315.4	1353.6	1394.6	1416.4	1432.8	1435.5	1441.0	1435.5
12.5°	1296.3	1315.4	1356.4	1410.9	1457.3	1498.3	1514.6	1503.7	1479.2	1468.3	1465.5
15°	1364.5	1383.6	1441.0	1509.2	1563.8	1582.9	1558.3	1522.8	1495.5	1492.8	1490.1
17.5°	1424.6	1451.9	1531.0	1602.0	1653.8	1634.7	1569.2	1547.4	1539.2	1550.1	1547.4
20°	1501.0	1522.8	1602.0	1689.3	1716.6	1642.9	1596.5	1582.9	1574.7	1574.7	1569.2
22.5°	1563.8	1580.1	1675.7	1771.2	1754.8	1648.4	1615.6	1588.3	1561.0	1558.3	1550.1
25°	1637.5	1642.9	1743.9	1847.6	1760.3	1653.8	1596.5	1550.1	1522.8	1514.6	1517.4
27.5°	1705.7	1719.3	1806.7	1899.4	1746.6	1623.8	1531.0	1471.0	1430.0	1427.3	1427.3
30°	1793.0	1793.0	1872.2	1956.8	1716.6	1547.4	1424.6	1337.3	1304.5	1301.8	1296.3
32.5°	1891.3	1874.9	1951.3	1997.7	1651.1	1443.7	1279.9	1181.7	1129.8	1118.9	1110.7
35°	2027.7	1992.2	2046.8	2005.9	1585.6	1296.3	1097.1	985.2	947.0	930.6	930.6
37.5°	2186.0	2134.1	2191.5	1981.3	1484.6	1124.4	906.1	821.5	780.5	756.0	764.1
40°	2371.6	2306.1	2338.8	1954.0	1375.5	933.3	747.8	695.9	646.8	614.0	614.0
42.5°	2589.9	2480.7	2505.3	1926.7	1219.9	766.9	646.8	611.3	573.1	540.4	548.5
45°	2800.0	2693.6	2669.1	1899.4	1056.2	655.0	605.9	581.3	545.8	507.6	507.6
47.5°	3042.9	2906.5	2813.7	1850.3	895.1	619.5	616.8	581.3	513.1	458.5	453.0
50°	3272.2	3146.6	2944.7	1776.6	805.1	649.5	614.0	529.4	463.9	428.5	425.7
52.5°	3515.1	3384.1	3051.1	1686.6	758.7	635.9	564.9	485.8	436.7	401.2	393.0
55°	3755.2	3687.0	3146.6	1599.2	685.0	592.2	524.0	458.5	406.6	373.9	368.4
57.5°	4028.1	4000.8	3228.5	1511.9	570.4	537.6	494.0	439.4	390.3	365.7	363.0
60°	4265.6	4361.1	3326.8	1446.4	485.8	496.7	480.3	436.7	401.2	373.9	373.9
62.5°	4516.6	4707.7	3414.1	1361.8	423.0	472.1	483.0	433.9	387.5	363.0	363.0
65°	4735.0	5062.5	3504.2	1206.3	379.3	453.0	474.9	403.9	349.3	330.2	324.8
66°	4827.8	5163.4	3531.4	1110.7	363.0	439.4	461.2	387.5	332.9	316.6	313.8
67.5°	4936.9	5321.7	3564.2	906.1	338.4	409.4	431.2	363.0	305.7	294.7	289.3
70°	5089.8	5354.5	3545.1	592.2	294.7	352.1	384.8	324.8	272.9	264.7	256.5
72.5°	5106.1	5130.7	3354.1	373.9	256.5	302.9	338.4	292.0	240.2	232.0	226.5
75°	4835.9	4546.7	2838.3	267.5	226.5	267.5	297.5	253.8	199.2	188.3	182.8
77.5°	4129.1	3607.9	2041.4	199.2	196.5	229.2	248.3	221.1	166.5	158.3	155.6
80°	2898.3	2448.0	1023.4	150.1	155.6	191.0	207.4	185.6	139.2	128.3	122.8
82.5°	1173.5	1039.8	352.1	111.9	117.4	144.6	177.4	152.8	106.4	92.8	81.9
85°	133.7	226.5	152.8	76.4	79.1	98.2	120.1	92.8	62.8	51.9	43.7
87.5°	27.3	49.1	54.6	30.0	27.3	38.2	54.6	32.7	21.8	8.2	10.9
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)