

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: P595359

Luminaire Tested: **IST-PA1F-727-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595359
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-727-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 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: 9320 lumens
Efficiency: N/A
Efficacy: 99.7 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

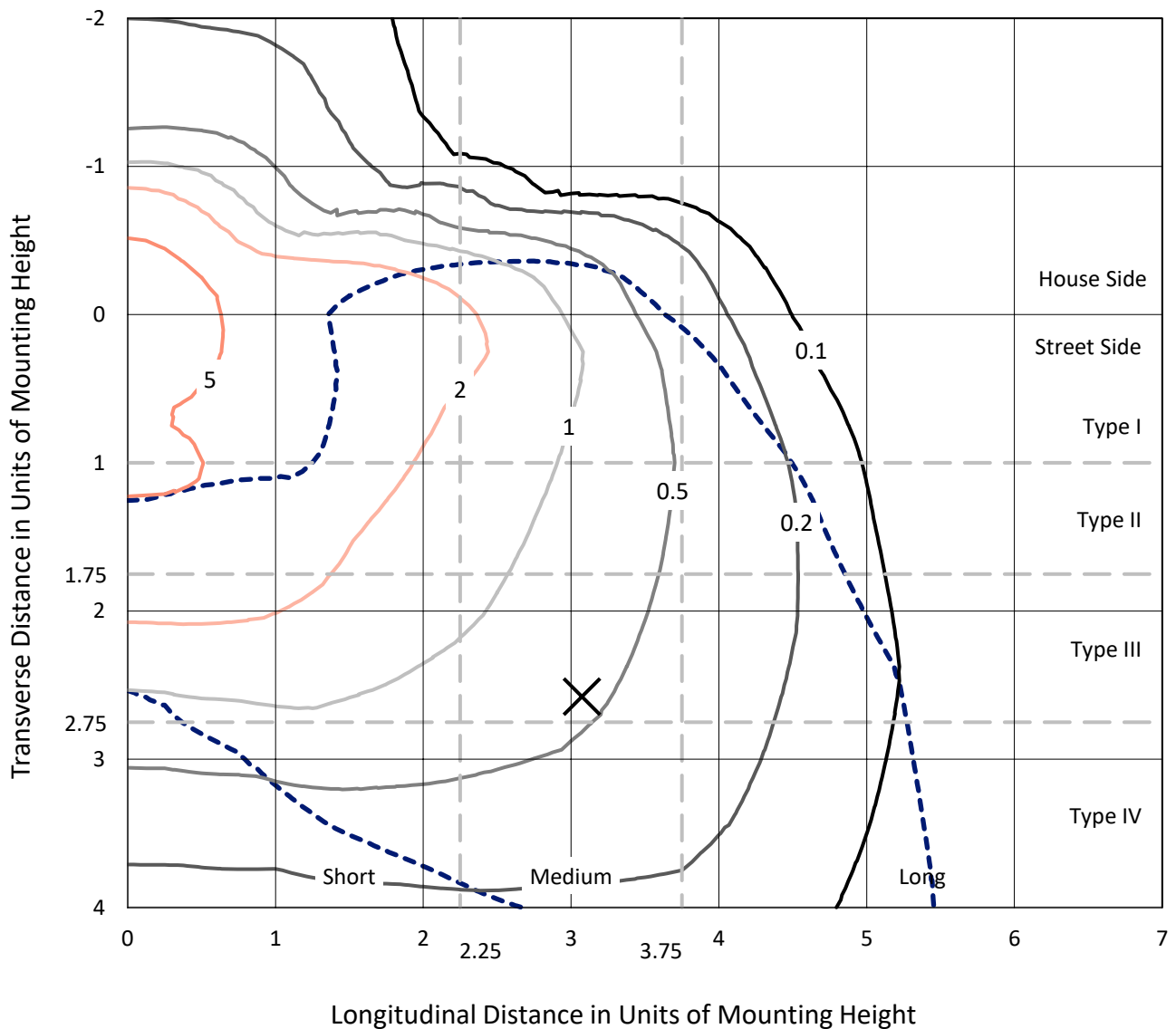
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

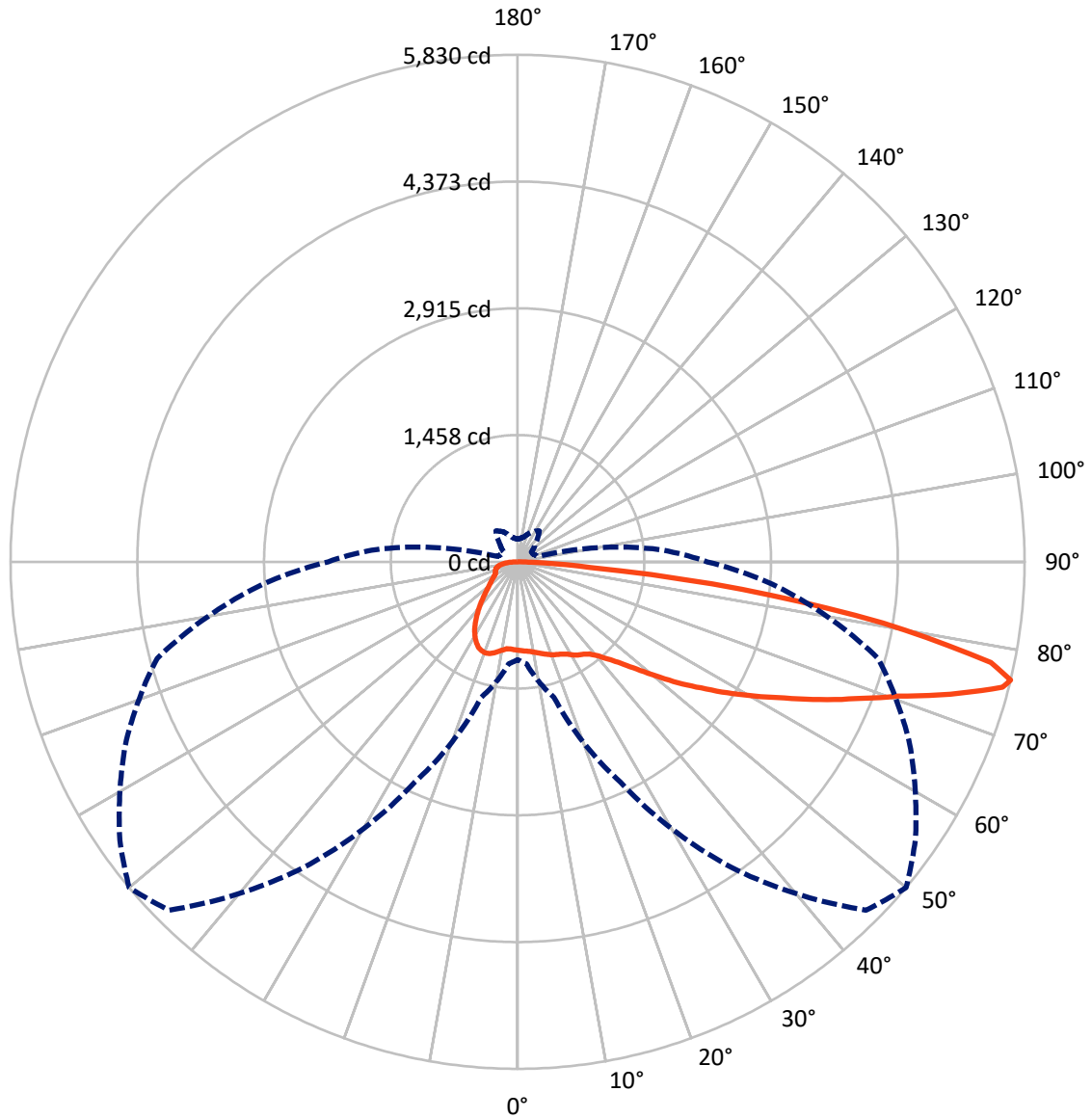
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.6 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	2132.1	0.0	2132.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7188.0	0.0	7188.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	9320.0	0.0	9320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	1.1
10°-20°	310.1	3.3
20°-30°	523.9	5.6
30°-40°	718.1	7.7
40°-50°	1057.6	11.3
50°-60°	1663.6	17.9
60°-70°	2394.7	25.7
70°-80°	2177.4	23.4
80°-90°	375.9	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°	9320.0	100.0
0°-180°	9320.0	100.0

Coefficient of Utilization

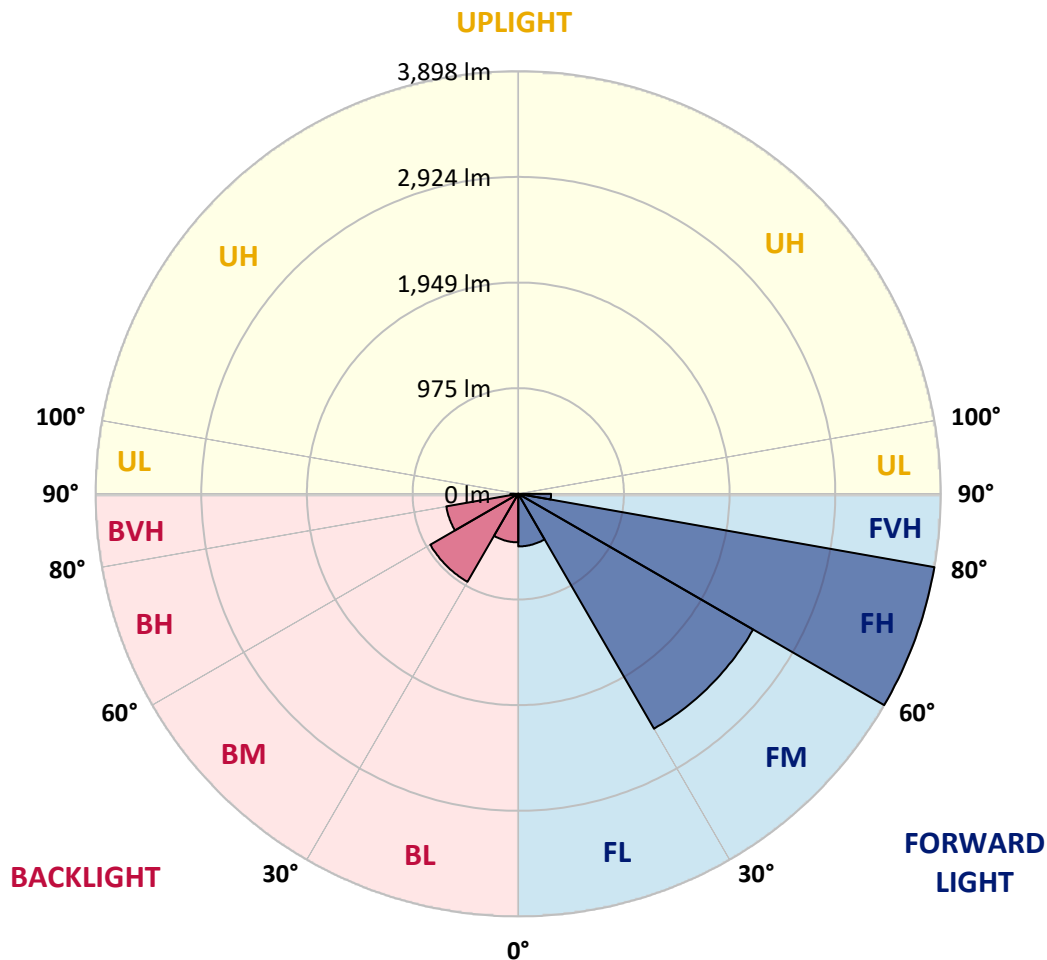


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.1	5.2			
FM (30°-60°)	2502.3	26.8			
FH (60°-80°)	3898.0	41.8			G2/5000
FVH (80°-90°)	302.6	3.2			G3/500
BL (0°-30°)	447.6	4.8	B1/500		
BM (30°-60°)	937.1	10.1	B1/1000		
BH (60°-80°)	674.1	7.2	B2/1000		G2/1000
BVH (80°-90°)	73.3	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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CATALOG NUMBER: IST-PA1F-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9
2.5°	1038.7	1038.7	1041.0	1036.4	1036.4	1025.0	1025.0	1022.7	1018.1	1015.9	1011.3
5°	1077.5	1077.5	1070.6	1059.2	1052.4	1038.7	1031.8	1027.3	1018.1	1006.7	995.3
7.5°	1118.6	1114.0	1109.5	1091.2	1077.5	1052.4	1041.0	1034.1	1015.9	999.9	993.0
10°	1162.0	1155.1	1143.7	1120.9	1100.3	1070.6	1056.9	1047.8	1027.3	1013.6	997.6
12.5°	1187.1	1187.1	1173.4	1146.0	1118.6	1082.1	1075.2	1063.8	1043.3	1025.0	1009.0
15°	1212.2	1214.5	1200.8	1168.8	1136.8	1109.5	1098.0	1091.2	1068.4	1041.0	1020.4
17.5°	1237.3	1235.0	1221.3	1184.8	1150.5	1125.4	1118.6	1109.5	1086.6	1061.5	1041.0
20°	1255.6	1251.0	1246.4	1200.8	1166.5	1150.5	1141.4	1134.6	1111.7	1084.3	1056.9
22.5°	1260.1	1264.7	1260.1	1205.3	1177.9	1159.7	1157.4	1150.5	1132.3	1107.2	1079.8
25°	1262.4	1264.7	1271.5	1219.0	1193.9	1180.2	1175.7	1171.1	1157.4	1136.8	1100.3
27.5°	1273.8	1276.1	1276.1	1228.2	1214.5	1205.3	1200.8	1200.8	1193.9	1168.8	1132.3
30°	1276.1	1278.4	1282.9	1251.0	1246.4	1239.6	1241.9	1239.6	1228.2	1200.8	1159.7
32.5°	1292.1	1294.4	1305.8	1264.7	1269.3	1276.1	1278.4	1276.1	1253.3	1230.4	1196.2
35°	1344.6	1342.3	1351.4	1298.9	1294.4	1296.6	1303.5	1301.2	1292.1	1271.5	1248.7
37.5°	1513.5	1513.5	1488.4	1378.8	1344.6	1340.0	1344.6	1356.0	1358.3	1340.0	1321.8
40°	1810.3	1794.3	1780.6	1543.2	1433.6	1406.2	1419.9	1426.8	1445.0	1445.0	1445.0
42.5°	2116.2	2118.5	2113.9	1798.9	1593.4	1524.9	1527.2	1543.2	1582.0	1588.8	1609.4
45°	2387.8	2403.8	2438.1	2095.6	1828.5	1675.6	1659.6	1675.6	1730.4	1776.0	1828.5
47.5°	2600.1	2581.9	2657.2	2406.1	2097.9	1881.1	1840.0	1844.5	1919.9	1992.9	2075.1
50°	2782.8	2787.3	2821.6	2723.4	2438.1	2113.9	2059.1	2050.0	2157.3	2234.9	2374.1
52.5°	2988.2	2974.5	3024.7	3001.9	2769.1	2399.3	2312.5	2285.1	2401.5	2511.1	2661.8
55°	3086.4	3100.1	3202.8	3259.9	3081.8	2654.9	2559.1	2568.2	2691.5	2807.9	3017.9
57.5°	3259.9	3273.6	3392.3	3511.0	3360.3	2926.6	2842.1	2842.1	2981.4	3111.5	3435.7
60°	3497.3	3499.6	3620.6	3826.0	3604.6	3189.1	3134.3	3132.0	3282.7	3433.4	3928.7
62.5°	3602.3	3629.7	3810.0	4077.1	3924.2	3511.0	3447.1	3465.3	3600.0	3775.8	4478.9
65°	3460.8	3520.1	3896.8	4246.1	4209.5	3846.6	3821.5	3846.6	3928.7	4118.2	5061.0
67.5°	2992.8	3072.7	3737.0	4360.2	4437.8	4234.6	4198.1	4193.6	4246.1	4458.4	5428.6
70°	2750.8	2798.7	3314.7	4403.6	4620.4	4627.3	4627.3	4597.6	4590.8	4746.0	5462.8
72.5°	2264.6	2314.8	2796.5	4161.6	4793.9	5152.3	5204.8	5095.3	4926.3	4894.4	4889.8
75°	1614.0	1650.5	2066.0	3273.6	4572.5	5656.8	5761.9	5549.6	5079.3	4570.2	3565.8
76°	1125.4	1177.9	1614.0	2796.5	4294.0	5666.0	5830.3	5583.8	4976.6	4291.7	2938.0
77.5°	570.7	589.0	933.7	1878.8	3593.2	5405.7	5565.5	5289.3	4529.1	3467.6	1865.1
80°	216.9	223.7	333.3	684.8	1972.4	4198.1	4259.8	3887.7	2997.4	1481.6	671.2
82.5°	114.1	118.7	187.2	337.9	810.4	2307.9	2604.7	2168.7	1175.7	445.2	196.3
85°	57.1	61.6	109.6	205.5	401.8	721.4	835.5	789.9	390.4	168.9	73.1
87.5°	22.8	27.4	54.8	91.3	162.1	141.5	157.5	203.2	125.6	79.9	25.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9
2.5°	1011.3	1009.0	1011.3	1009.0	1011.3	1011.3	1013.6	1009.0	1009.0	1013.6	1006.7
5°	995.3	993.0	995.3	999.9	1002.2	1006.7	1015.9	1013.6	1018.1	1022.7	1025.0
7.5°	988.5	986.2	993.0	995.3	1002.2	1011.3	1025.0	1034.1	1038.7	1047.8	1043.3
10°	995.3	995.3	1004.4	1011.3	1022.7	1034.1	1045.5	1054.7	1066.1	1072.9	1070.6
12.5°	1006.7	1004.4	1020.4	1029.6	1045.5	1056.9	1066.1	1070.6	1079.8	1088.9	1086.6
15°	1018.1	1020.4	1043.3	1061.5	1079.8	1084.3	1086.6	1082.1	1086.6	1091.2	1091.2
17.5°	1041.0	1043.3	1068.4	1088.9	1104.9	1100.3	1088.9	1077.5	1077.5	1079.8	1082.1
20°	1059.2	1063.8	1093.5	1111.7	1120.9	1102.6	1084.3	1070.6	1063.8	1066.1	1063.8
22.5°	1079.8	1088.9	1118.6	1127.7	1114.0	1091.2	1068.4	1050.1	1050.1	1052.4	1052.4
25°	1104.9	1109.5	1130.0	1125.4	1100.3	1066.1	1047.8	1041.0	1038.7	1041.0	1043.3
27.5°	1127.7	1130.0	1141.4	1109.5	1061.5	1025.0	1018.1	1020.4	1022.7	1025.0	1027.3
30°	1157.4	1162.0	1150.5	1086.6	1013.6	972.5	972.5	986.2	990.7	997.6	995.3
32.5°	1193.9	1198.5	1164.2	1056.9	951.9	910.8	913.1	933.7	947.4	951.9	954.2
35°	1255.6	1246.4	1173.4	1015.9	885.7	835.5	837.8	862.9	881.2	888.0	883.5
37.5°	1330.9	1328.6	1187.1	963.4	803.6	757.9	760.2	771.6	789.9	792.1	794.4
40°	1456.4	1438.2	1209.9	894.9	721.4	678.0	673.4	680.3	678.0	682.6	684.8
42.5°	1636.8	1588.8	1239.6	817.3	648.3	602.7	598.1	586.7	573.0	559.3	552.4
45°	1849.1	1773.8	1276.1	737.4	573.0	531.9	520.5	506.8	479.4	449.7	440.6
47.5°	2123.0	1979.2	1317.2	657.5	502.2	470.3	461.1	440.6	408.6	374.4	367.5
50°	2403.8	2221.2	1358.3	591.3	445.2	426.9	417.8	397.2	356.1	324.2	317.3
52.5°	2730.3	2460.9	1401.7	531.9	394.9	394.9	388.1	356.1	317.3	287.6	283.1
55°	3106.9	2707.4	1470.1	474.8	358.4	367.5	358.4	326.4	289.9	269.4	267.1
57.5°	3556.6	3020.2	1556.9	413.2	326.4	333.3	333.3	310.5	285.4	271.7	269.4
60°	4008.6	3337.5	1611.7	367.5	301.3	308.2	321.9	310.5	294.5	287.6	285.4
62.5°	4442.4	3661.7	1518.1	328.7	276.2	296.8	331.0	333.3	317.3	319.6	319.6
65°	4766.5	3908.2	1228.2	294.5	260.2	303.6	358.4	360.7	333.3	326.4	324.2
67.5°	4878.4	3976.7	826.4	271.7	251.1	308.2	390.4	381.2	333.3	319.6	312.7
70°	4666.1	3725.6	536.5	251.1	237.4	303.6	415.5	392.6	331.0	310.5	301.3
72.5°	3912.8	3177.7	358.4	232.8	223.7	299.1	431.5	392.6	324.2	294.5	285.4
75°	2716.6	2171.0	267.1	210.0	203.2	292.2	436.0	385.8	308.2	276.2	269.4
76°	2180.1	1627.7	242.0	200.9	194.0	287.6	433.7	378.9	296.8	267.1	260.2
77.5°	1376.5	936.0	203.2	184.9	180.3	278.5	424.6	363.0	280.8	251.1	244.3
80°	481.7	342.4	155.2	150.7	152.9	258.0	399.5	331.0	248.8	221.4	212.3
82.5°	191.8	157.5	116.4	116.4	121.0	221.4	360.7	292.2	216.9	182.6	168.9
85°	75.3	68.5	82.2	82.2	86.7	180.3	301.3	228.3	148.4	114.1	109.6
87.5°	22.8	32.0	36.5	38.8	41.1	91.3	171.2	100.4	66.2	47.9	38.8
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)