

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: P595364

Luminaire Tested: **IST-PA1F-730-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595364  
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-730-U-T2U  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3000K, 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: 10249 lumens  
Efficiency: N/A  
Efficacy: 109.6 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

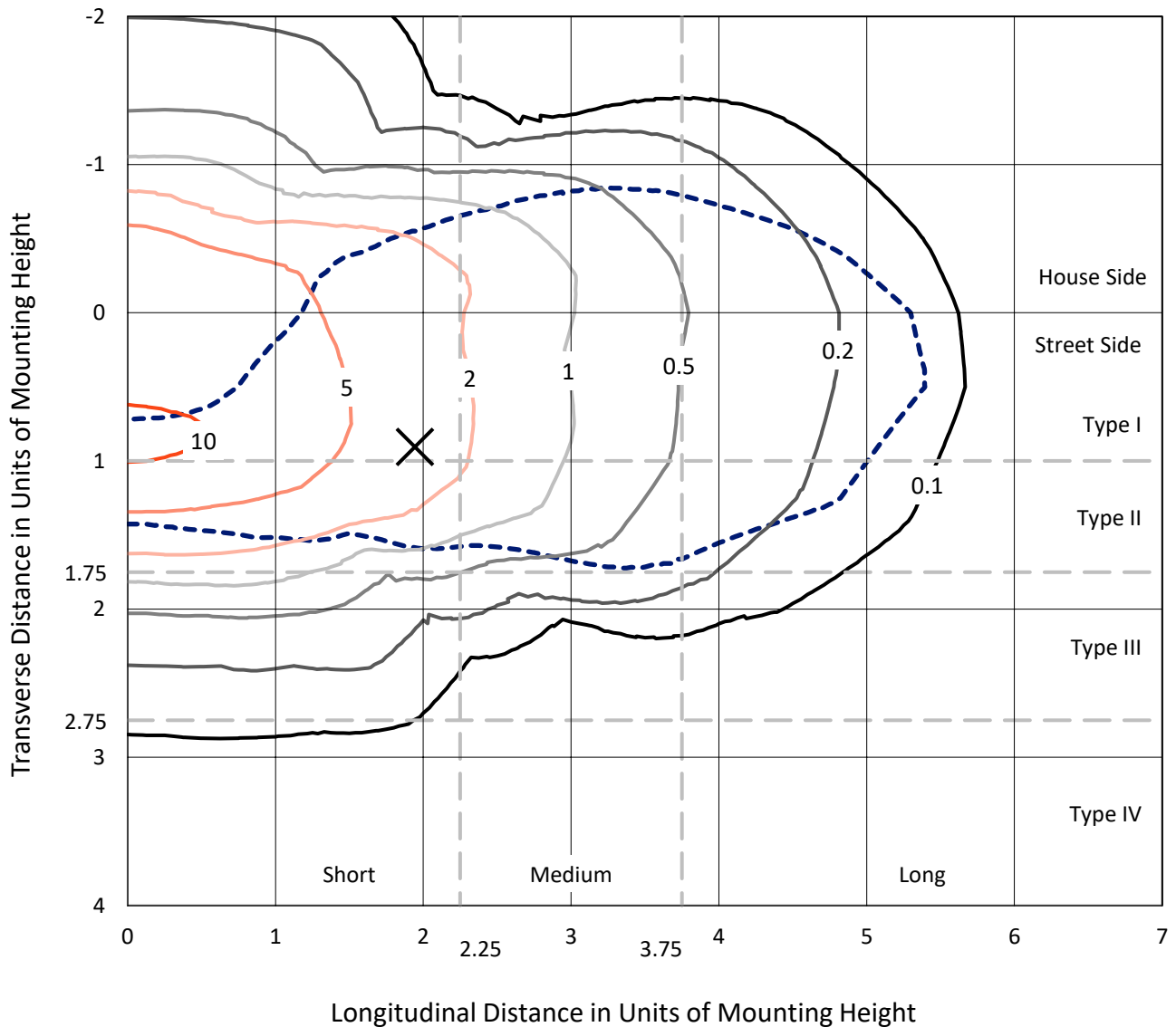
Input Watts (W): 93.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

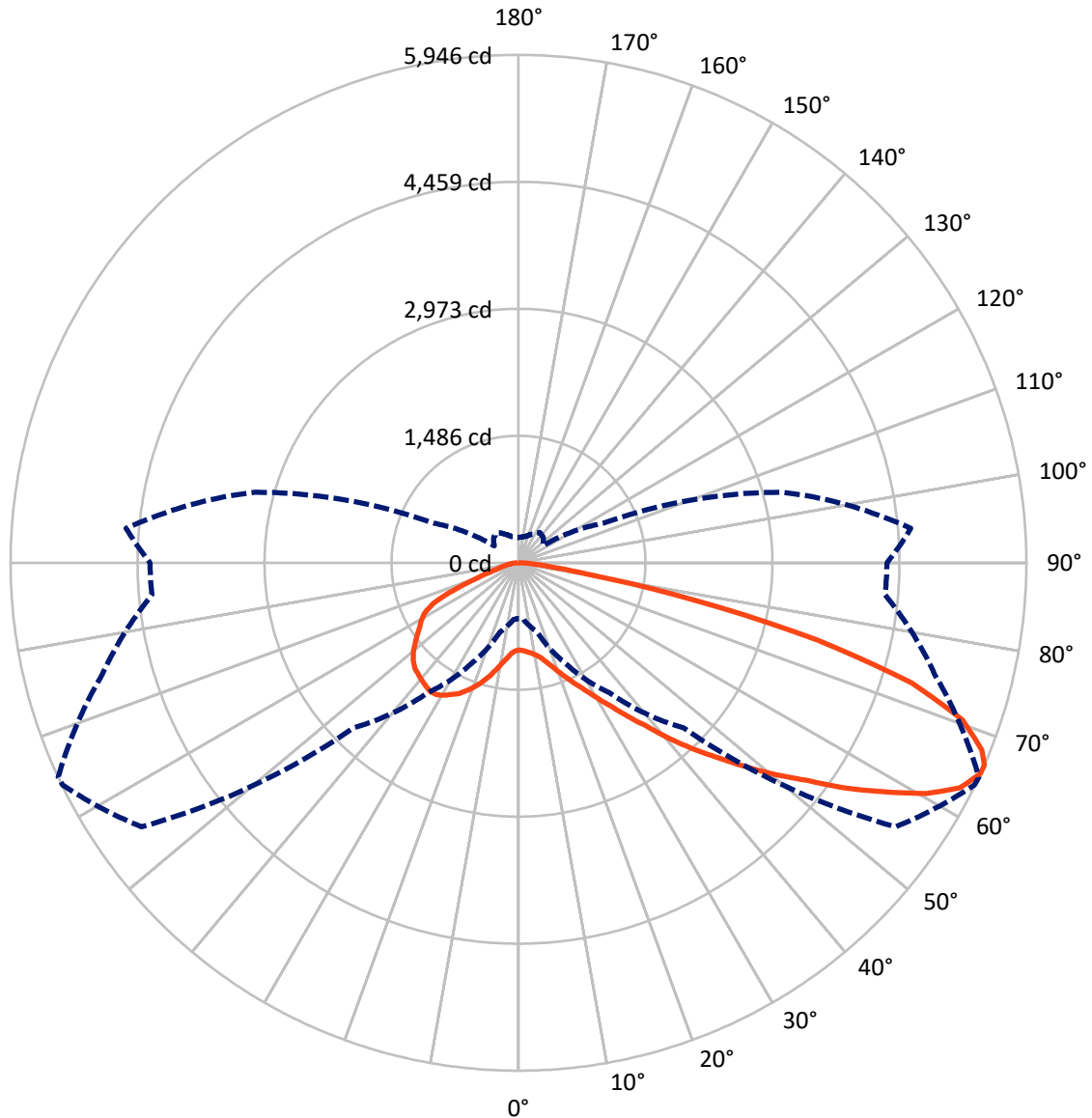
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.3 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
<b>House Side</b>	Lumens	3112.0	0.0	3112.0
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	7137.0	0.0	7137.0
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	10249.0	0.0	10249.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.2	1.0
10°-20°	363.3	3.5
20°-30°	711.4	6.9
30°-40°	1162.4	11.3
40°-50°	1845.0	18.0
50°-60°	2373.0	23.2
60°-70°	2140.0	20.9
70°-80°	1327.3	13.0
80°-90°	222.4	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°	10249.0	100.0
0°-180°	10249.0	100.0

**Coefficient of Utilization**



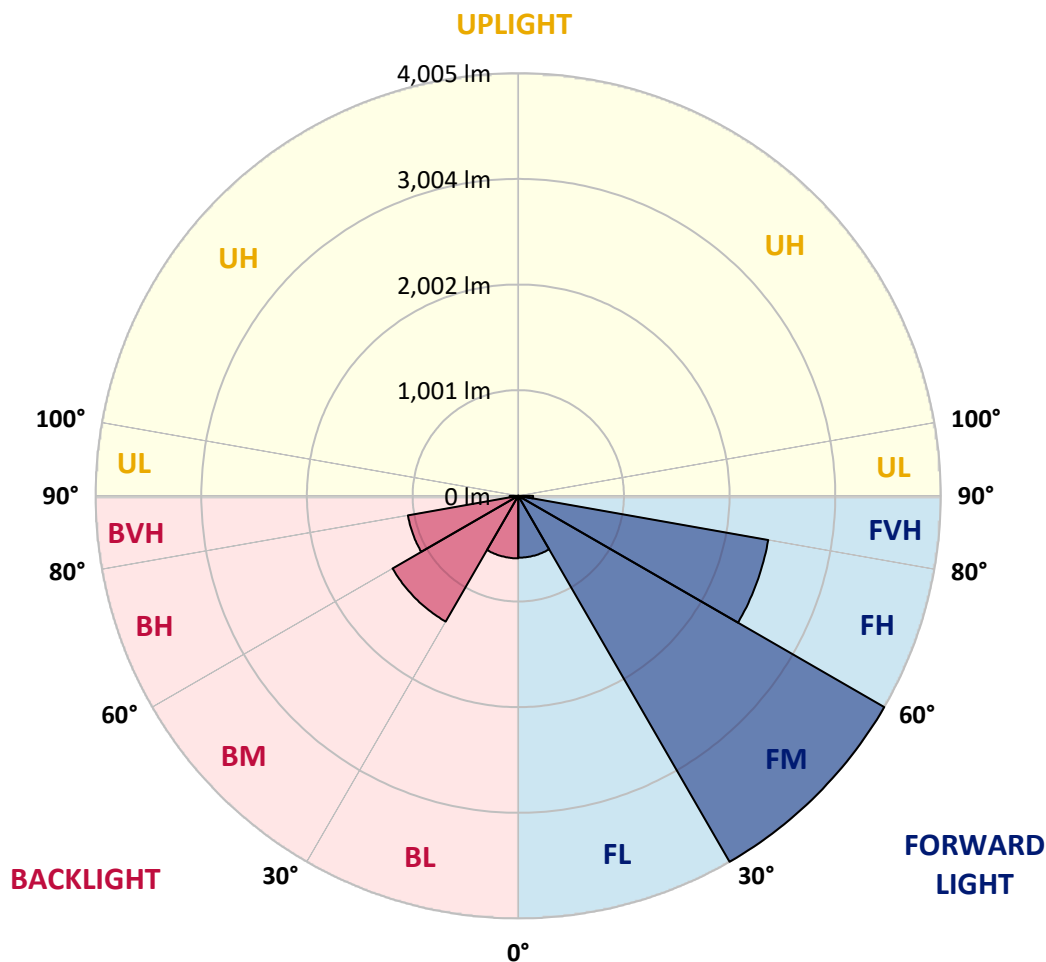
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	586.1	5.7			
FM (30°-60°)	4004.7	39.1			
FH (60°-80°)	2405.5	23.5			G2/5000
FVH (80°-90°)	140.7	1.4			G2/225
BL (0°-30°)	592.7	5.8	B2/1000		
BM (30°-60°)	1375.7	13.4	B2/2500		
BH (60°-80°)	1061.8	10.4	B3/2500		G3/2500
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: 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°	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6
2.5°	1024.1	1026.6	1029.0	1024.1	1029.0	1031.5	1026.6	1026.6	1029.0	1024.1	1024.1
5°	1016.6	1019.1	1024.1	1026.6	1036.5	1041.5	1044.0	1044.0	1046.4	1044.0	1046.4
7.5°	996.7	996.7	1006.7	1011.6	1026.6	1044.0	1053.9	1068.8	1068.8	1071.3	1078.8
10°	1016.6	1016.6	1024.1	1031.5	1044.0	1058.9	1073.8	1091.2	1096.1	1113.5	1123.5
12.5°	1046.4	1051.4	1061.4	1071.3	1086.2	1103.6	1116.0	1133.4	1135.9	1153.3	1173.2
15°	1096.1	1101.1	1106.1	1118.5	1138.4	1160.8	1183.1	1195.6	1200.5	1210.5	1225.4
17.5°	1170.7	1175.7	1178.2	1185.6	1200.5	1230.4	1262.7	1272.6	1277.6	1277.6	1290.0
20°	1297.5	1295.0	1290.0	1275.1	1275.1	1302.5	1347.2	1364.6	1369.6	1359.6	1352.2
22.5°	1444.1	1441.6	1421.8	1404.4	1391.9	1396.9	1441.6	1471.5	1469.0	1449.1	1419.3
25°	1635.5	1640.5	1608.2	1563.4	1526.2	1516.2	1543.6	1573.4	1578.4	1541.1	1491.4
27.5°	1864.2	1856.7	1839.3	1767.3	1695.2	1650.4	1665.4	1697.7	1700.1	1660.4	1580.8
30°	2132.6	2120.2	2075.5	2000.9	1889.1	1826.9	1814.5	1841.8	1849.3	1782.2	1667.8
32.5°	2430.9	2418.5	2361.3	2247.0	2125.2	2020.8	1981.0	2018.3	2013.3	1936.3	1777.2
35°	2791.3	2788.8	2684.4	2542.8	2388.7	2249.5	2194.8	2194.8	2209.7	2095.4	1916.4
37.5°	3273.5	3293.4	3139.3	2918.1	2701.8	2515.4	2423.5	2418.5	2421.0	2296.7	2073.0
40°	3708.5	3701.1	3611.6	3405.3	3089.6	2851.0	2714.3	2684.4	2691.9	2532.8	2276.8
42.5°	3959.6	3967.0	3944.6	3855.2	3579.3	3278.5	3044.9	2965.3	2967.8	2769.0	2470.7
45°	4116.2	4123.6	4121.1	4165.9	4056.5	3773.1	3440.1	3256.1	3246.2	3037.4	2699.4
47.5°	4205.6	4210.6	4242.9	4334.9	4424.4	4359.7	3877.5	3579.3	3559.4	3288.4	2928.0
50°	4106.2	4108.7	4237.9	4456.7	4675.4	4871.8	4324.9	3899.9	3894.9	3566.8	3151.7
52.5°	3584.2	3629.0	3914.8	4372.2	4861.8	5234.7	4841.9	4277.7	4235.5	3830.3	3375.4
55°	2925.6	2945.4	3273.5	3855.2	4827.0	5458.4	5232.2	4685.4	4655.5	4123.6	3594.2
57.5°	2284.3	2304.2	2694.4	3179.1	4295.1	5445.9	5508.1	5125.3	5058.2	4379.6	3812.9
60°	1474.0	1536.1	1988.5	2585.0	3477.4	5068.1	5647.3	5547.9	5485.7	4633.2	3999.3
62.5°	1001.7	1011.6	1295.0	1916.4	2602.4	4118.6	5637.3	5808.8	5798.9	4886.7	4185.7
65°	651.2	666.1	837.6	1297.5	1861.7	2734.2	5388.8	5935.6	5945.6	5043.3	4307.5
66°	551.8	561.7	693.5	1091.2	1630.6	2167.4	5170.0	5925.7	5945.6	5115.4	4344.8
67.5°	479.7	487.2	554.3	805.3	1332.3	1558.5	4600.8	5793.9	5851.1	5182.5	4392.1
70°	412.6	422.6	484.7	549.3	952.0	909.7	2913.1	5455.9	5513.1	5214.8	4421.9
72.5°	340.5	348.0	410.1	497.1	691.0	611.5	1285.1	4670.4	4814.6	5095.5	4374.7
75°	268.4	273.4	330.6	415.1	529.4	477.2	559.3	3425.2	3606.6	4491.5	4190.7
77.5°	208.8	211.3	256.0	323.1	484.7	370.4	345.5	1667.8	2110.3	3469.9	3691.1
80°	144.2	149.1	188.9	243.6	355.4	293.3	231.2	651.2	827.7	2304.2	2798.8
82.5°	94.5	96.9	129.3	183.9	236.1	280.9	151.6	315.7	348.0	1061.4	1213.0
85°	64.6	64.6	92.0	114.3	161.6	186.4	99.4	166.5	181.4	402.7	146.7
87.5°	32.3	32.3	44.7	59.7	77.1	72.1	59.7	59.7	59.7	131.7	42.3
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°	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6
2.5°	1026.6	1026.6	1029.0	1031.5	1034.0	1034.0	1036.5	1036.5	1034.0	1036.5	1039.0
5°	1048.9	1051.4	1056.4	1063.8	1076.3	1088.7	1101.1	1108.6	1116.0	1118.5	1113.5
7.5°	1083.7	1088.7	1106.1	1126.0	1145.9	1175.7	1193.1	1203.0	1208.0	1213.0	1208.0
10°	1128.5	1138.4	1163.3	1198.1	1232.9	1270.1	1290.0	1304.9	1307.4	1312.4	1307.4
12.5°	1180.7	1198.1	1235.3	1285.1	1327.3	1364.6	1379.5	1369.6	1347.2	1337.3	1334.8
15°	1242.8	1260.2	1312.4	1374.5	1424.2	1441.6	1419.3	1387.0	1362.1	1359.6	1357.1
17.5°	1297.5	1322.3	1394.4	1459.0	1506.3	1488.9	1429.2	1409.3	1401.9	1411.8	1409.3
20°	1367.1	1387.0	1459.0	1538.6	1563.4	1496.3	1454.1	1441.6	1434.2	1434.2	1429.2
22.5°	1424.2	1439.2	1526.2	1613.2	1598.2	1501.3	1471.5	1446.6	1421.8	1419.3	1411.8
25°	1491.4	1496.3	1588.3	1682.8	1603.2	1506.3	1454.1	1411.8	1387.0	1379.5	1382.0
27.5°	1553.5	1565.9	1645.5	1730.0	1590.8	1478.9	1394.4	1339.7	1302.5	1300.0	1300.0
30°	1633.0	1633.0	1705.1	1782.2	1563.4	1409.3	1297.5	1217.9	1188.1	1185.6	1180.7
32.5°	1722.5	1707.6	1777.2	1819.5	1503.8	1314.9	1165.7	1076.3	1029.0	1019.1	1011.6
35°	1846.8	1814.5	1864.2	1826.9	1444.1	1180.7	999.2	897.3	862.5	847.6	847.6
37.5°	1991.0	1943.7	1995.9	1804.5	1352.2	1024.1	825.2	748.2	710.9	688.5	696.0
40°	2160.0	2100.3	2130.2	1779.7	1252.7	850.1	681.1	633.8	589.1	559.3	559.3
42.5°	2358.8	2259.4	2281.8	1754.8	1111.1	698.5	589.1	556.8	522.0	492.1	499.6
45°	2550.2	2453.3	2430.9	1730.0	961.9	596.5	551.8	529.4	497.1	462.3	462.3
47.5°	2771.4	2647.2	2562.7	1685.2	815.3	564.2	561.7	529.4	467.3	417.6	412.6
50°	2980.2	2865.9	2682.0	1618.1	733.3	591.6	559.3	482.2	422.6	390.2	387.8
52.5°	3201.5	3082.1	2778.9	1536.1	691.0	579.1	514.5	442.4	397.7	365.4	357.9
55°	3420.2	3358.0	2865.9	1456.6	623.9	539.4	477.2	417.6	370.4	340.5	335.6
57.5°	3668.7	3643.9	2940.5	1377.0	519.5	489.7	449.9	400.2	355.4	333.1	330.6
60°	3885.0	3972.0	3029.9	1317.4	442.4	452.4	437.5	397.7	365.4	340.5	340.5
62.5°	4113.7	4287.7	3109.5	1240.3	385.3	430.0	440.0	395.2	353.0	330.6	330.6
65°	4312.5	4610.8	3191.5	1098.6	345.5	412.6	432.5	367.9	318.2	300.8	295.8
66°	4397.0	4702.8	3216.4	1011.6	330.6	400.2	420.1	353.0	303.2	288.3	285.8
67.5°	4496.4	4846.9	3246.2	825.2	308.2	372.8	392.7	330.6	278.4	268.4	263.5
70°	4635.6	4876.7	3228.8	539.4	268.4	320.6	350.5	295.8	248.6	241.1	233.6
72.5°	4650.6	4672.9	3054.8	340.5	233.6	275.9	308.2	266.0	218.7	211.3	206.3
75°	4404.5	4141.0	2585.0	243.6	206.3	243.6	270.9	231.2	181.4	171.5	166.5
77.5°	3760.7	3286.0	1859.2	181.4	179.0	208.8	226.2	201.3	151.6	144.2	141.7
80°	2639.7	2229.6	932.1	136.7	141.7	174.0	188.9	169.0	126.8	116.8	111.9
82.5°	1068.8	947.0	320.6	101.9	106.9	131.7	161.6	139.2	96.9	84.5	74.6
85°	121.8	206.3	139.2	69.6	72.1	89.5	109.4	84.5	57.2	47.2	39.8
87.5°	24.9	44.7	49.7	27.3	24.9	34.8	49.7	29.8	19.9	7.5	9.9
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)