

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: P595337

Luminaire Tested: **IST-PA1E-830-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595337  
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-PA1E-830-U-T2U  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8147 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

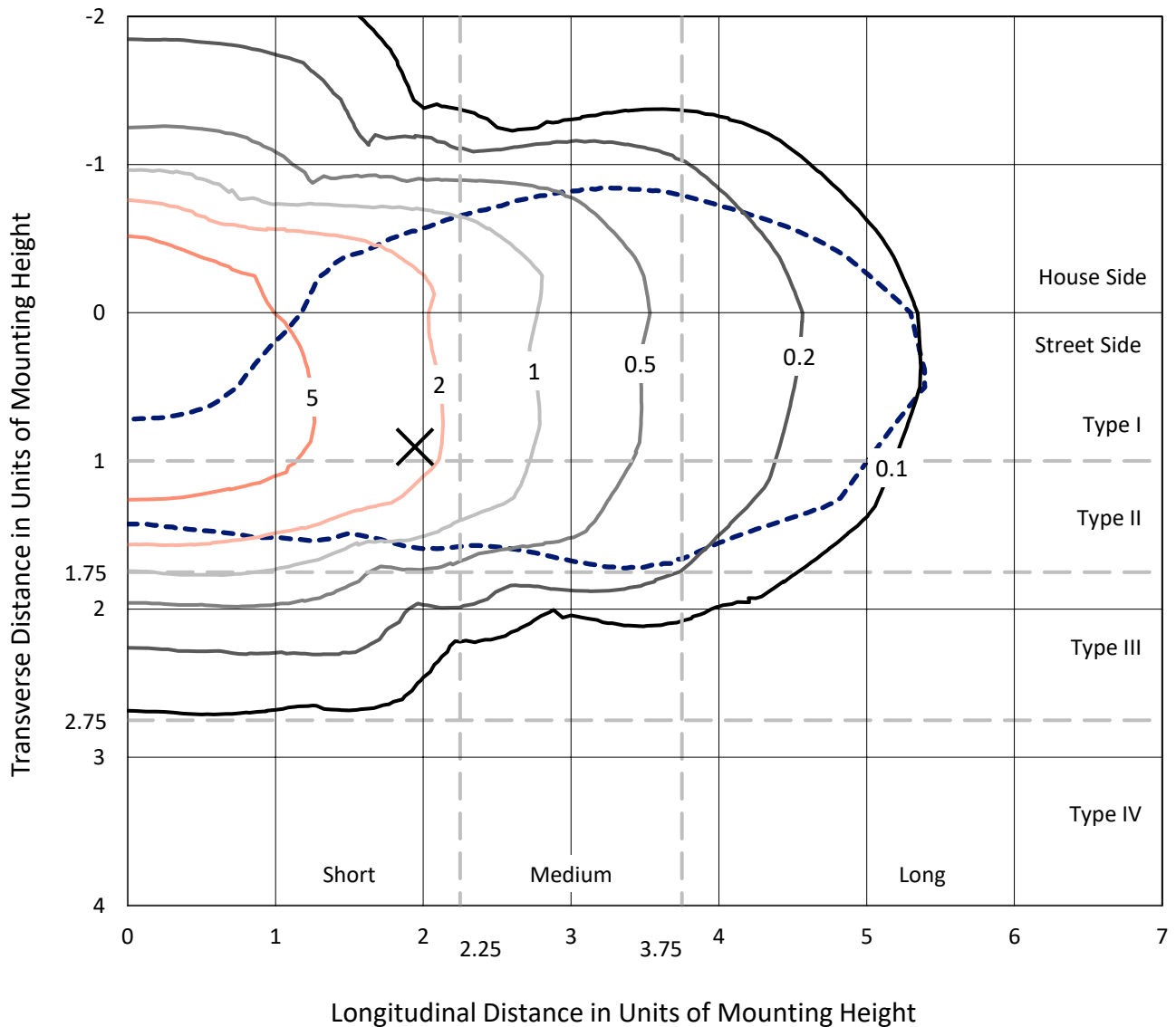
Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

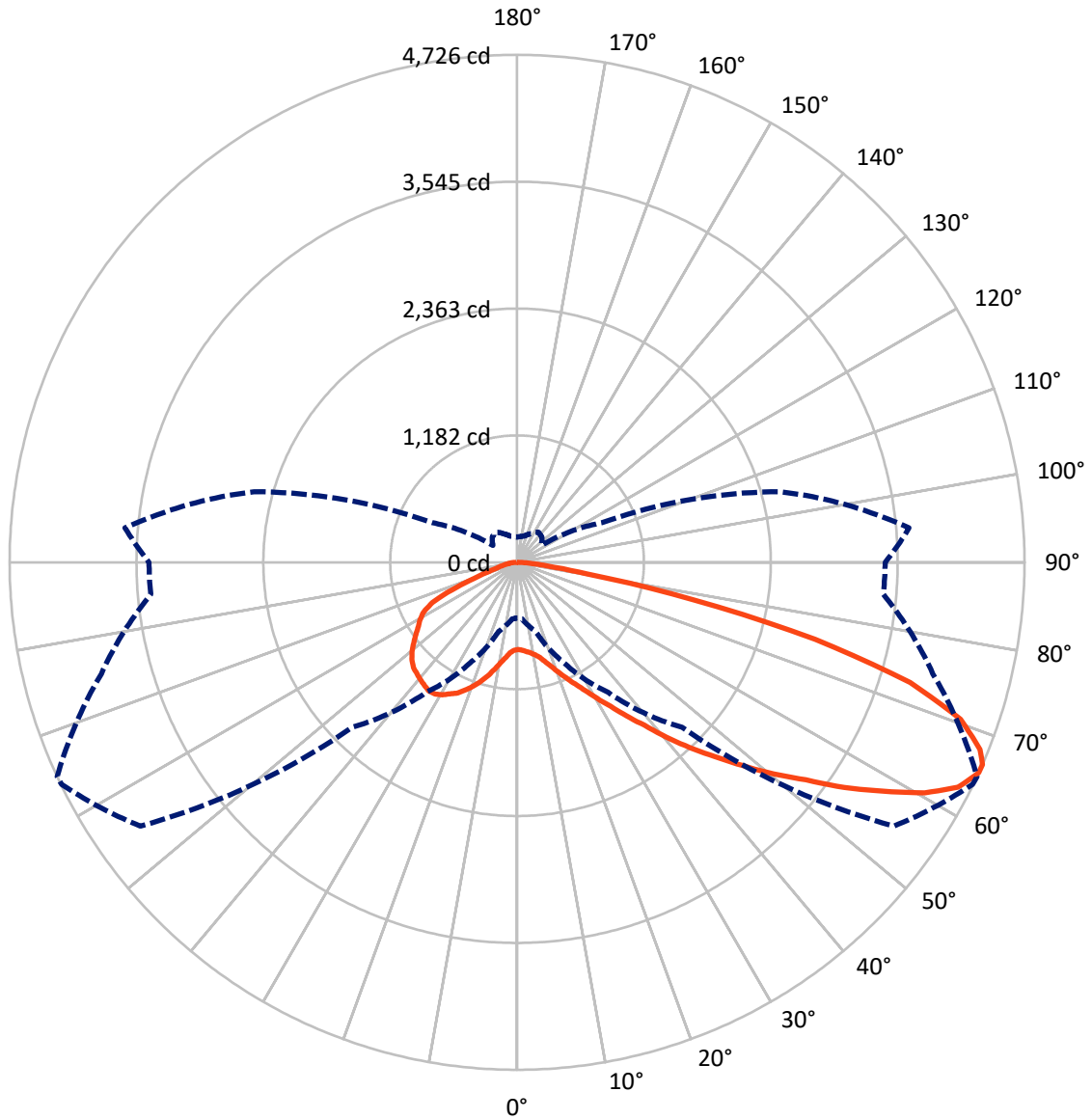
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9 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	2473.8	0.0	2473.8
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	5673.3	0.0	5673.3
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	8147.0	0.0	8147.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.8	1.0
10°-20°	288.8	3.5
20°-30°	565.5	6.9
30°-40°	924.0	11.3
40°-50°	1466.6	18.0
50°-60°	1886.3	23.2
60°-70°	1701.1	20.9
70°-80°	1055.1	13.0
80°-90°	176.8	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°	8147.0	100.0
0°-180°	8147.0	100.0

**Coefficient of Utilization**

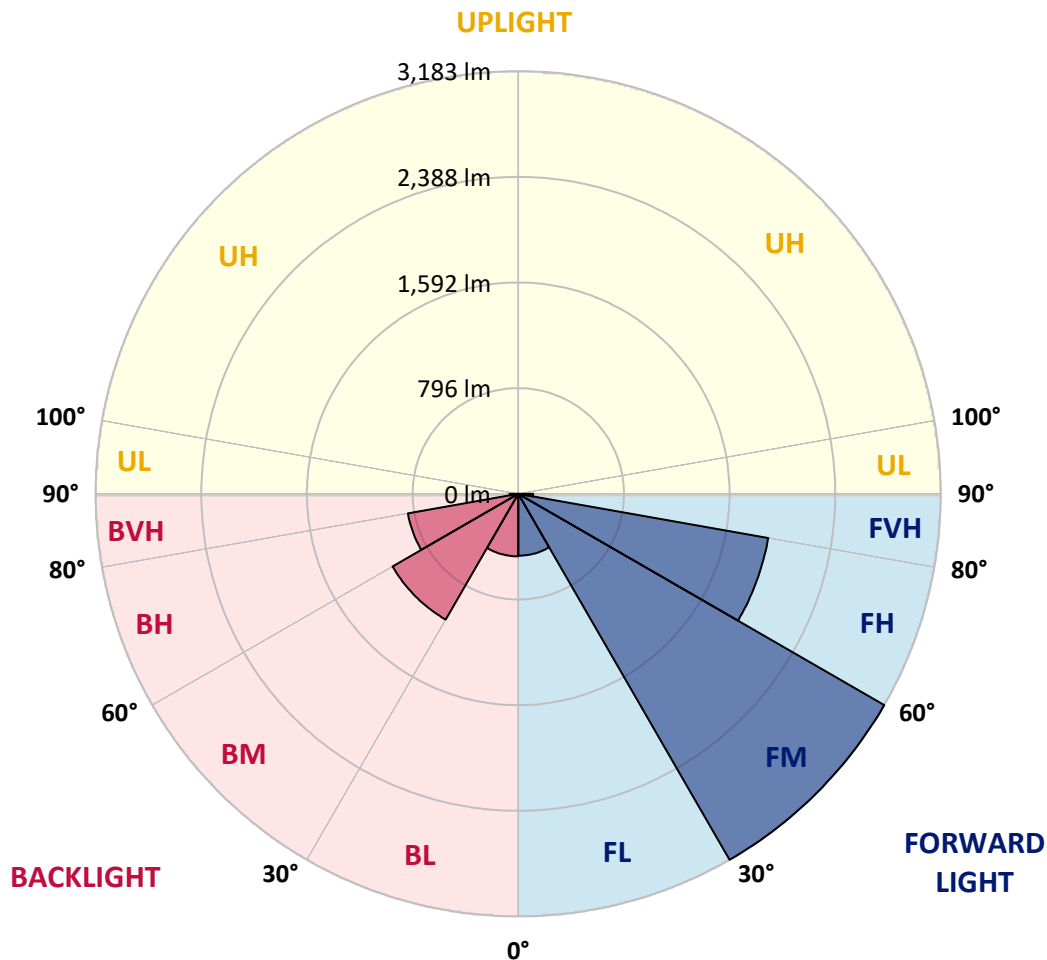


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	465.9	5.7			
FM (30°-60°)	3183.4	39.1			
FH (60°-80°)	1912.1	23.5			G2/5000
FVH (80°-90°)	111.8	1.4			G2/225
BL (0°-30°)	471.2	5.8	B1/500		
BM (30°-60°)	1093.6	13.4	B2/2500		
BH (60°-80°)	844.1	10.4	B2/1000		G2/1000
BVH (80°-90°)	65.0	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	812.1	812.1	812.1	812.1	812.1	812.1	812.1	812.1	812.1	812.1	812.1
2.5°	814.0	816.0	818.0	814.0	818.0	820.0	816.0	816.0	818.0	814.0	814.0
5°	808.1	810.1	814.0	816.0	823.9	827.9	829.8	829.8	831.8	829.8	831.8
7.5°	792.3	792.3	800.2	804.2	816.0	829.8	837.7	849.6	849.6	851.6	857.5
10°	808.1	808.1	814.0	820.0	829.8	841.7	853.6	867.4	871.3	885.2	893.1
12.5°	831.8	835.8	843.7	851.6	863.4	877.3	887.1	901.0	902.9	916.8	932.6
15°	871.3	875.3	879.2	889.1	904.9	922.7	940.5	950.4	954.3	962.2	974.1
17.5°	930.6	934.6	936.5	942.5	954.3	978.0	1003.7	1011.6	1015.6	1015.6	1025.5
20°	1031.4	1029.4	1025.5	1013.6	1013.6	1035.3	1070.9	1084.7	1088.7	1080.8	1074.8
22.5°	1148.0	1146.0	1130.2	1116.3	1106.5	1110.4	1146.0	1169.7	1167.7	1151.9	1128.2
25°	1300.1	1304.0	1278.4	1242.8	1213.2	1205.3	1227.0	1250.7	1254.6	1225.0	1185.5
27.5°	1481.9	1475.9	1462.1	1404.8	1347.5	1311.9	1323.8	1349.5	1351.5	1319.8	1256.6
30°	1695.3	1685.4	1649.8	1590.5	1501.6	1452.2	1442.3	1464.1	1470.0	1416.7	1325.8
32.5°	1932.4	1922.5	1877.0	1786.1	1689.3	1606.3	1574.7	1604.4	1600.4	1539.2	1412.7
35°	2218.8	2216.9	2133.9	2021.3	1898.8	1788.1	1744.6	1744.6	1756.5	1665.6	1523.4
37.5°	2602.2	2618.0	2495.5	2319.6	2147.7	1999.5	1926.4	1922.5	1924.4	1825.7	1647.8
40°	2947.9	2942.0	2870.9	2706.9	2455.9	2266.3	2157.6	2133.9	2139.8	2013.4	1809.9
42.5°	3147.5	3153.4	3135.6	3064.5	2845.2	2606.1	2420.4	2357.2	2359.1	2201.1	1964.0
45°	3272.0	3277.9	3275.9	3311.5	3224.5	2999.3	2734.5	2588.3	2580.4	2414.5	2145.7
47.5°	3343.1	3347.0	3372.7	3445.8	3517.0	3465.6	3082.3	2845.2	2829.4	2614.0	2327.5
50°	3264.1	3266.0	3368.8	3542.6	3716.5	3872.6	3437.9	3100.1	3096.1	2835.3	2505.3
52.5°	2849.1	2884.7	3111.9	3475.5	3864.7	4161.1	3848.9	3400.4	3366.8	3044.7	2683.2
55°	2325.5	2341.3	2602.2	3064.5	3837.0	4338.9	4159.1	3724.4	3700.7	3277.9	2857.0
57.5°	1815.8	1831.6	2141.8	2527.1	3414.2	4329.0	4378.4	4074.1	4020.8	3481.4	3030.9
60°	1171.7	1221.1	1580.7	2054.9	2764.2	4028.7	4489.1	4410.0	4360.6	3682.9	3179.1
62.5°	796.3	804.2	1029.4	1523.4	2068.7	3273.9	4481.2	4617.5	4609.6	3884.5	3327.3
65°	517.7	529.5	665.9	1031.4	1479.9	2173.4	4283.6	4718.3	4726.2	4008.9	3424.1
66°	438.6	446.5	551.3	867.4	1296.1	1722.9	4109.7	4710.4	4726.2	4066.2	3453.7
67.5°	381.3	387.3	440.6	640.2	1059.0	1238.8	3657.2	4605.6	4651.1	4119.6	3491.3
70°	328.0	335.9	385.3	436.7	756.7	723.2	2315.7	4336.9	4382.4	4145.3	3515.0
72.5°	270.7	276.6	326.0	395.2	549.3	486.1	1021.5	3712.6	3827.2	4050.4	3477.4
75°	213.4	217.3	262.8	330.0	420.8	379.4	444.6	2722.7	2866.9	3570.3	3331.2
77.5°	166.0	167.9	203.5	256.9	385.3	294.4	274.6	1325.8	1677.5	2758.2	2934.1
80°	114.6	118.5	150.2	193.6	282.5	233.1	183.8	517.7	657.9	1831.6	2224.8
82.5°	75.1	77.1	102.7	146.2	187.7	223.3	120.5	250.9	276.6	843.7	964.2
85°	51.4	51.4	73.1	90.9	128.4	148.2	79.0	132.4	144.2	320.1	116.6
87.5°	25.7	25.7	35.6	47.4	61.3	57.3	47.4	47.4	47.4	104.7	33.6
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°	812.1	812.1	812.1	812.1	812.1	812.1	812.1	812.1	812.1	812.1	812.1
2.5°	816.0	816.0	818.0	820.0	821.9	821.9	823.9	823.9	821.9	823.9	825.9
5°	833.8	835.8	839.7	845.7	855.5	865.4	875.3	881.2	887.1	889.1	885.2
7.5°	861.5	865.4	879.2	895.0	910.9	934.6	948.4	956.3	960.2	964.2	960.2
10°	897.0	904.9	924.7	952.3	980.0	1009.6	1025.5	1037.3	1039.3	1043.2	1039.3
12.5°	938.5	952.3	982.0	1021.5	1055.1	1084.7	1096.6	1088.7	1070.9	1063.0	1061.0
15°	987.9	1001.7	1043.2	1092.6	1132.1	1146.0	1128.2	1102.5	1082.7	1080.8	1078.8
17.5°	1031.4	1051.1	1108.4	1159.8	1197.3	1183.5	1136.1	1120.3	1114.4	1122.3	1120.3
20°	1086.7	1102.5	1159.8	1223.0	1242.8	1189.4	1155.9	1146.0	1140.0	1140.0	1136.1
22.5°	1132.1	1144.0	1213.2	1282.3	1270.5	1193.4	1169.7	1149.9	1130.2	1128.2	1122.3
25°	1185.5	1189.4	1262.5	1337.6	1274.4	1197.3	1155.9	1122.3	1102.5	1096.6	1098.6
27.5°	1234.9	1244.8	1308.0	1375.2	1264.5	1175.6	1108.4	1065.0	1035.3	1033.4	1033.4
30°	1298.1	1298.1	1355.4	1416.7	1242.8	1120.3	1031.4	968.2	944.4	942.5	938.5
32.5°	1369.2	1357.4	1412.7	1446.3	1195.4	1045.2	926.7	855.5	818.0	810.1	804.2
35°	1468.0	1442.3	1481.9	1452.2	1148.0	938.5	794.3	713.3	685.6	673.8	673.8
37.5°	1582.6	1545.1	1586.6	1434.4	1074.8	814.0	656.0	594.7	565.1	547.3	553.2
40°	1717.0	1669.6	1693.3	1414.7	995.8	675.7	541.4	503.8	468.3	444.6	444.6
42.5°	1875.1	1796.0	1813.8	1394.9	883.2	555.2	468.3	442.6	414.9	391.2	397.1
45°	2027.2	1950.1	1932.4	1375.2	764.6	474.2	438.6	420.8	395.2	367.5	367.5
47.5°	2203.0	2104.2	2037.1	1339.6	648.1	448.5	446.5	420.8	371.5	331.9	328.0
50°	2369.0	2278.1	2131.9	1286.3	582.9	470.2	444.6	383.3	335.9	310.2	308.2
52.5°	2544.9	2450.0	2209.0	1221.1	549.3	460.4	409.0	351.7	316.1	290.4	284.5
55°	2718.7	2669.3	2278.1	1157.8	495.9	428.8	379.4	331.9	294.4	270.7	266.7
57.5°	2916.3	2896.6	2337.4	1094.6	412.9	389.2	357.6	318.1	282.5	264.8	262.8
60°	3088.2	3157.4	2408.5	1047.2	351.7	359.6	347.7	316.1	290.4	270.7	270.7
62.5°	3270.0	3408.3	2471.8	985.9	306.3	341.8	349.7	314.2	280.6	262.8	262.8
65°	3428.0	3665.1	2537.0	873.3	274.6	328.0	343.8	292.4	252.9	239.1	235.1
66°	3495.2	3738.3	2556.7	804.2	262.8	318.1	333.9	280.6	241.1	229.2	227.2
67.5°	3574.3	3852.8	2580.4	656.0	245.0	296.4	312.2	262.8	221.3	213.4	209.4
70°	3684.9	3876.6	2566.6	428.8	213.4	254.9	278.6	235.1	197.6	191.7	185.7
72.5°	3696.8	3714.5	2428.3	270.7	185.7	219.3	245.0	211.4	173.9	167.9	164.0
75°	3501.2	3291.7	2054.9	193.6	164.0	193.6	215.4	183.8	144.2	136.3	132.4
77.5°	2989.4	2612.0	1477.9	144.2	142.3	166.0	179.8	160.0	120.5	114.6	112.6
80°	2098.3	1772.3	740.9	108.7	112.6	138.3	150.2	134.4	100.8	92.9	88.9
82.5°	849.6	752.8	254.9	81.0	85.0	104.7	128.4	110.6	77.1	67.2	59.3
85°	96.8	164.0	110.6	55.3	57.3	71.1	86.9	67.2	45.4	37.5	31.6
87.5°	19.8	35.6	39.5	21.7	19.8	27.7	39.5	23.7	15.8	5.9	7.9
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)