

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: P595413

Luminaire Tested: **IST-PA1F-827-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595413  
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-827-U-T4W  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 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: 8192 lumens  
Efficiency: N/A  
Efficacy: 87.6 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

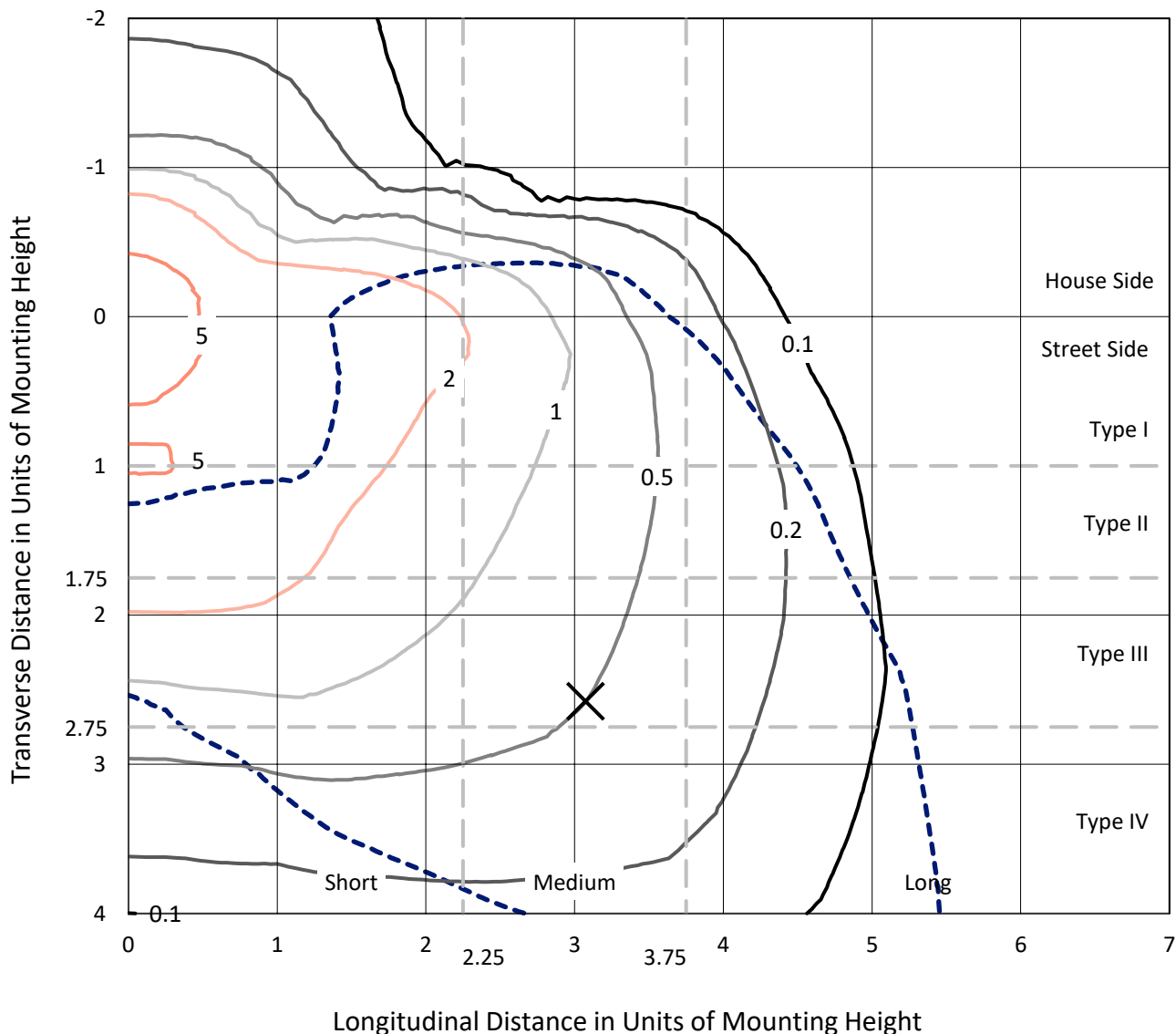
Input Watts (W): 93.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

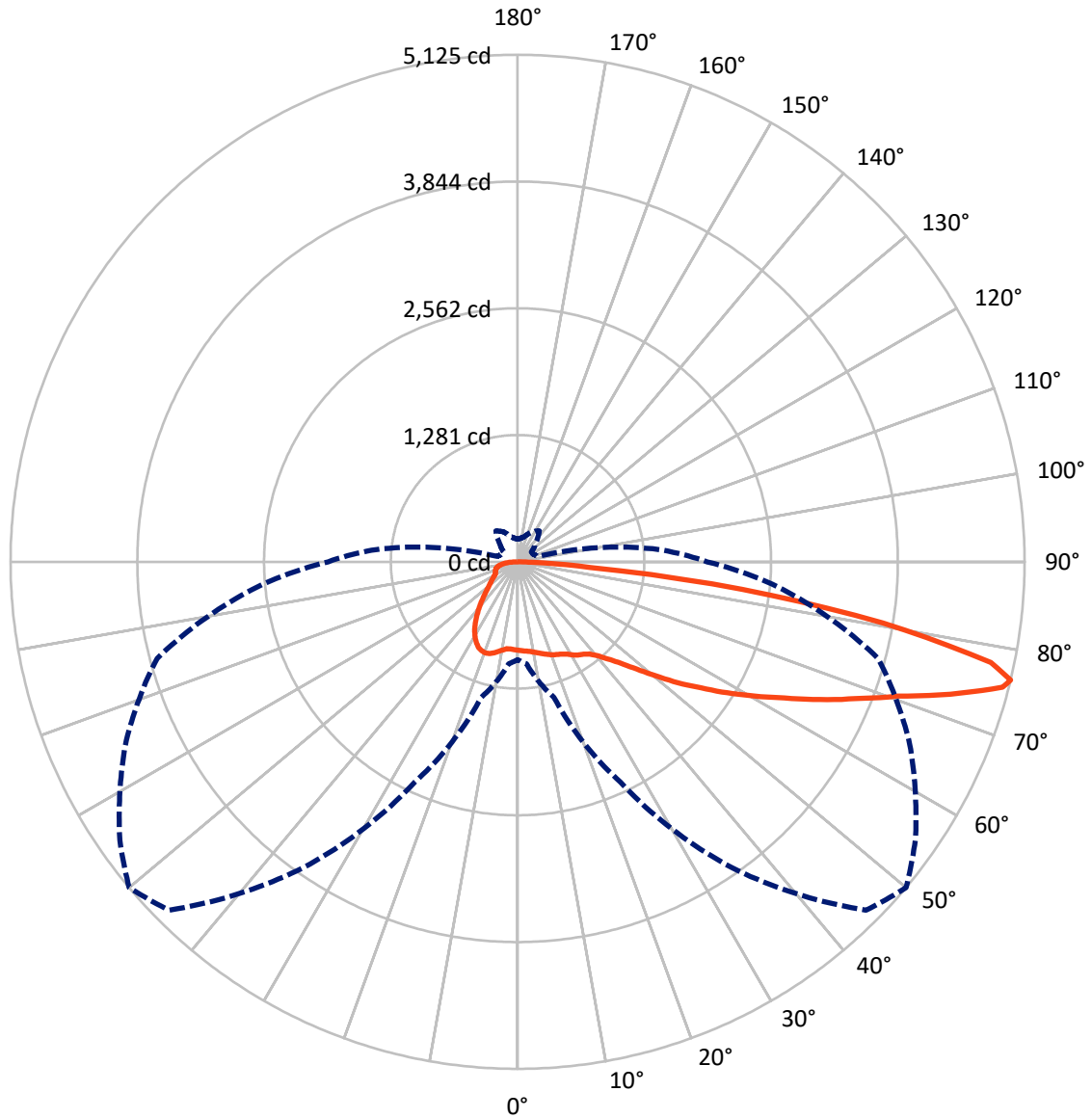
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.7 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
<b>House Side</b>	Lumens	1874.0	0.0	1874.0
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	6318.0	0.0	6318.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	8192.0	0.0	8192.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.7	1.1
10°-20°	272.6	3.3
20°-30°	460.5	5.6
30°-40°	631.2	7.7
40°-50°	929.6	11.3
50°-60°	1462.3	17.9
60°-70°	2104.9	25.7
70°-80°	1913.9	23.4
80°-90°	330.4	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°	8192.0	100.0
0°-180°	8192.0	100.0

**Coefficient of Utilization**

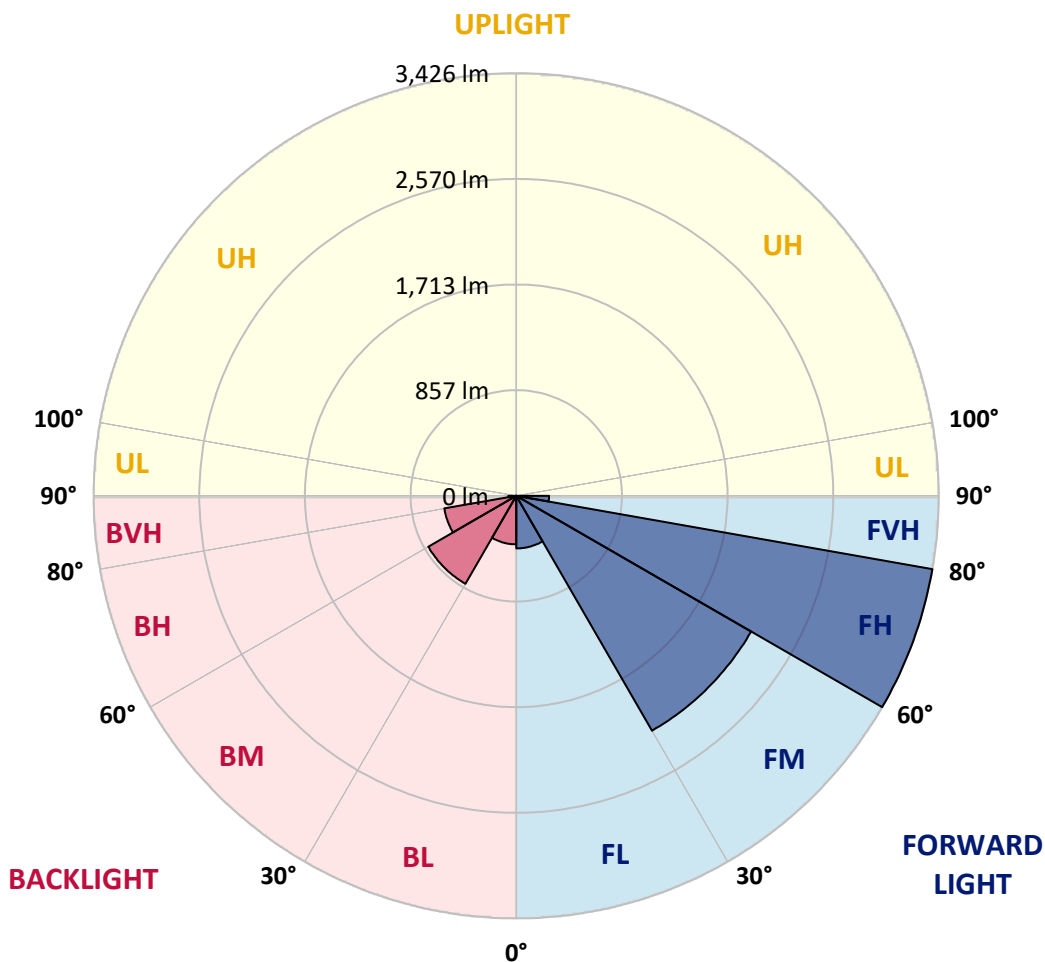


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.4	5.2			
FM (30°-60°)	2199.4	26.8			
FH (60°-80°)	3426.3	41.8			G2/5000
FVH (80°-90°)	266.0	3.2			G3/500
BL (0°-30°)	393.4	4.8	B1/500		
BM (30°-60°)	823.6	10.1	B1/1000		
BH (60°-80°)	592.5	7.2	B2/1000		G2/1000
BVH (80°-90°)	64.5	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°	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9
2.5°	913.0	913.0	915.0	911.0	911.0	900.9	900.9	898.9	894.9	892.9	888.9
5°	947.1	947.1	941.1	931.0	925.0	913.0	907.0	902.9	894.9	884.9	874.9
7.5°	983.2	979.2	975.2	959.1	947.1	925.0	915.0	909.0	892.9	878.9	872.8
10°	1021.3	1015.3	1005.3	985.2	967.2	941.1	929.0	921.0	902.9	890.9	876.9
12.5°	1043.4	1043.4	1031.4	1007.3	983.2	951.1	945.1	935.0	917.0	900.9	886.9
15°	1065.5	1067.5	1055.4	1027.3	999.3	975.2	965.1	959.1	939.1	915.0	896.9
17.5°	1087.5	1085.5	1073.5	1041.4	1011.3	989.2	983.2	975.2	955.1	933.0	915.0
20°	1103.6	1099.6	1095.6	1055.4	1025.3	1011.3	1003.3	997.2	977.2	953.1	929.0
22.5°	1107.6	1111.6	1107.6	1059.5	1035.4	1019.3	1017.3	1011.3	995.2	973.2	949.1
25°	1109.6	1111.6	1117.6	1071.5	1049.4	1037.4	1033.4	1029.4	1017.3	999.3	967.2
27.5°	1119.6	1121.7	1121.7	1079.5	1067.5	1059.5	1055.4	1055.4	1049.4	1027.3	995.2
30°	1121.7	1123.7	1127.7	1099.6	1095.6	1089.6	1091.6	1089.6	1079.5	1055.4	1019.3
32.5°	1135.7	1137.7	1147.7	1111.6	1115.6	1121.7	1123.7	1121.7	1101.6	1081.5	1051.4
35°	1181.9	1179.8	1187.9	1141.7	1137.7	1139.7	1145.7	1143.7	1135.7	1117.6	1097.6
37.5°	1330.3	1330.3	1308.3	1211.9	1181.9	1177.8	1181.9	1191.9	1193.9	1177.8	1161.8
40°	1591.2	1577.1	1565.1	1356.4	1260.1	1236.0	1248.1	1254.1	1270.1	1270.1	1270.1
42.5°	1860.1	1862.1	1858.1	1581.2	1400.6	1340.4	1342.4	1356.4	1390.5	1396.6	1414.6
45°	2098.8	2112.9	2143.0	1842.0	1607.2	1472.8	1458.8	1472.8	1521.0	1561.1	1607.2
47.5°	2285.4	2269.4	2335.6	2114.9	1844.0	1653.4	1617.3	1621.3	1687.5	1751.7	1823.9
50°	2446.0	2450.0	2480.1	2393.8	2143.0	1858.1	1809.9	1801.9	1896.2	1964.4	2086.8
52.5°	2626.6	2614.5	2658.7	2638.6	2433.9	2108.9	2032.6	2008.5	2110.9	2207.2	2339.6
55°	2712.8	2724.9	2815.2	2865.3	2708.8	2333.6	2249.3	2257.4	2365.7	2468.0	2652.6
57.5°	2865.3	2877.4	2981.7	3086.1	2953.6	2572.4	2498.1	2498.1	2620.5	2734.9	3019.8
60°	3074.0	3076.0	3182.4	3363.0	3168.3	2803.1	2755.0	2753.0	2885.4	3017.8	3453.3
62.5°	3166.3	3190.4	3348.9	3583.7	3449.2	3086.1	3029.9	3045.9	3164.3	3318.8	3936.8
65°	3041.9	3094.1	3425.2	3732.2	3700.1	3381.0	3358.9	3381.0	3453.3	3619.8	4448.5
67.5°	2630.6	2700.8	3284.7	3832.5	3900.7	3722.1	3690.0	3686.0	3732.2	3918.8	4771.5
70°	2417.9	2460.0	2913.5	3870.6	4061.2	4067.3	4067.3	4041.2	4035.1	4171.6	4801.6
72.5°	1990.5	2034.6	2458.0	3657.9	4213.7	4528.8	4574.9	4478.6	4330.1	4302.0	4298.0
75°	1418.6	1450.7	1815.9	2877.4	4019.1	4972.2	5064.5	4877.9	4464.5	4017.1	3134.2
76°	989.2	1035.4	1418.6	2458.0	3774.3	4980.2	5124.7	4908.0	4374.3	3772.3	2582.4
77.5°	501.6	517.7	820.7	1651.4	3158.3	4751.5	4891.9	4649.1	3981.0	3047.9	1639.3
80°	190.6	196.6	293.0	602.0	1733.6	3690.0	3744.2	3417.1	2634.6	1302.2	589.9
82.5°	100.3	104.3	164.5	297.0	712.3	2028.6	2289.5	1906.2	1033.4	391.3	172.6
85°	50.2	54.2	96.3	180.6	353.2	634.1	734.4	694.3	343.1	148.5	64.2
87.5°	20.1	24.1	48.2	80.3	142.5	124.4	138.5	178.6	110.4	70.2	22.1
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°	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9
2.5°	888.9	886.9	888.9	886.9	888.9	888.9	890.9	886.9	886.9	890.9	884.9
5°	874.9	872.8	874.9	878.9	880.9	884.9	892.9	890.9	894.9	898.9	900.9
7.5°	868.8	866.8	872.8	874.9	880.9	888.9	900.9	909.0	913.0	921.0	917.0
10°	874.9	874.9	882.9	888.9	898.9	909.0	919.0	927.0	937.1	943.1	941.1
12.5°	884.9	882.9	896.9	904.9	919.0	929.0	937.1	941.1	949.1	957.1	955.1
15°	894.9	896.9	917.0	933.0	949.1	953.1	955.1	951.1	955.1	959.1	959.1
17.5°	915.0	917.0	939.1	957.1	971.2	967.2	957.1	947.1	947.1	949.1	951.1
20°	931.0	935.0	961.1	977.2	985.2	969.2	953.1	941.1	935.0	937.1	935.0
22.5°	949.1	957.1	983.2	991.2	979.2	959.1	939.1	923.0	923.0	925.0	925.0
25°	971.2	975.2	993.2	989.2	967.2	937.1	921.0	915.0	913.0	915.0	917.0
27.5°	991.2	993.2	1003.3	975.2	933.0	900.9	894.9	896.9	898.9	900.9	902.9
30°	1017.3	1021.3	1011.3	955.1	890.9	854.8	854.8	866.8	870.8	876.9	874.9
32.5°	1049.4	1053.4	1023.3	929.0	836.7	800.6	802.6	820.7	832.7	836.7	838.7
35°	1103.6	1095.6	1031.4	892.9	778.5	734.4	736.4	758.5	774.5	780.5	776.5
37.5°	1169.8	1167.8	1043.4	846.8	706.3	666.2	668.2	678.2	694.3	696.3	698.3
40°	1280.2	1264.1	1063.5	786.6	634.1	595.9	591.9	597.9	595.9	600.0	602.0
42.5°	1438.7	1396.6	1089.6	718.3	569.9	529.7	525.7	515.7	503.6	491.6	485.6
45°	1625.3	1559.1	1121.7	648.1	503.6	467.5	457.5	445.5	421.4	395.3	387.3
47.5°	1866.1	1739.7	1157.8	577.9	441.4	413.3	405.3	387.3	359.2	329.1	323.1
50°	2112.9	1952.4	1193.9	519.7	391.3	375.2	367.2	349.1	313.0	284.9	278.9
52.5°	2399.8	2163.0	1232.0	467.5	347.1	347.1	341.1	313.0	278.9	252.8	248.8
55°	2730.9	2379.8	1292.2	417.4	315.0	323.1	315.0	286.9	254.8	236.8	234.8
57.5°	3126.2	2654.6	1368.5	363.2	286.9	293.0	293.0	272.9	250.8	238.8	236.8
60°	3523.5	2933.6	1416.6	323.1	264.9	270.9	282.9	272.9	258.8	252.8	250.8
62.5°	3904.7	3218.5	1334.3	288.9	242.8	260.8	290.9	293.0	278.9	280.9	280.9
65°	4189.7	3435.2	1079.5	258.8	228.7	266.9	315.0	317.0	293.0	286.9	284.9
67.5°	4288.0	3495.4	726.4	238.8	220.7	270.9	343.1	335.1	293.0	280.9	274.9
70°	4101.4	3274.7	471.5	220.7	208.7	266.9	365.2	345.1	290.9	272.9	264.9
72.5°	3439.2	2793.1	315.0	204.7	196.6	262.9	379.2	345.1	284.9	258.8	250.8
75°	2387.8	1908.2	234.8	184.6	178.6	256.8	383.2	339.1	270.9	242.8	236.8
76°	1916.2	1430.7	212.7	176.6	170.6	252.8	381.2	333.1	260.8	234.8	228.7
77.5°	1209.9	822.7	178.6	162.5	158.5	244.8	373.2	319.0	246.8	220.7	214.7
80°	423.4	301.0	136.4	132.4	134.4	226.7	351.1	290.9	218.7	194.6	186.6
82.5°	168.5	138.5	102.3	102.3	106.3	194.6	317.0	256.8	190.6	160.5	148.5
85°	66.2	60.2	72.2	72.2	76.2	158.5	264.9	200.7	130.4	100.3	96.3
87.5°	20.1	28.1	32.1	34.1	36.1	80.3	150.5	88.3	58.2	42.1	34.1
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)