

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: P595220

Luminaire Tested: **IST-PA1D-740-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595220  
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-PA1D-740-U-T2U  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8323 lumens  
Efficiency: N/A  
Efficacy: 133.4 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

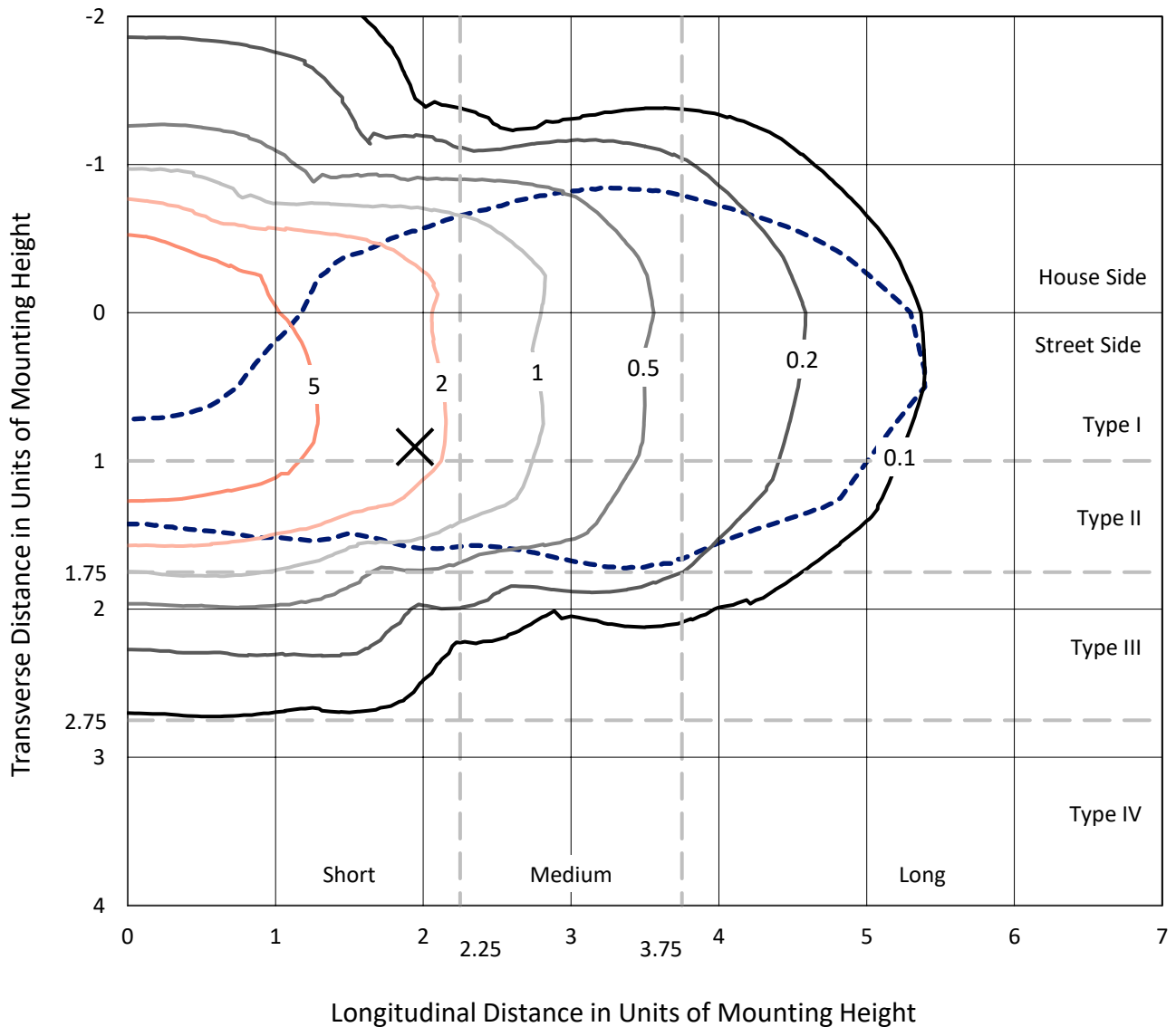
Input Watts (W): 62.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

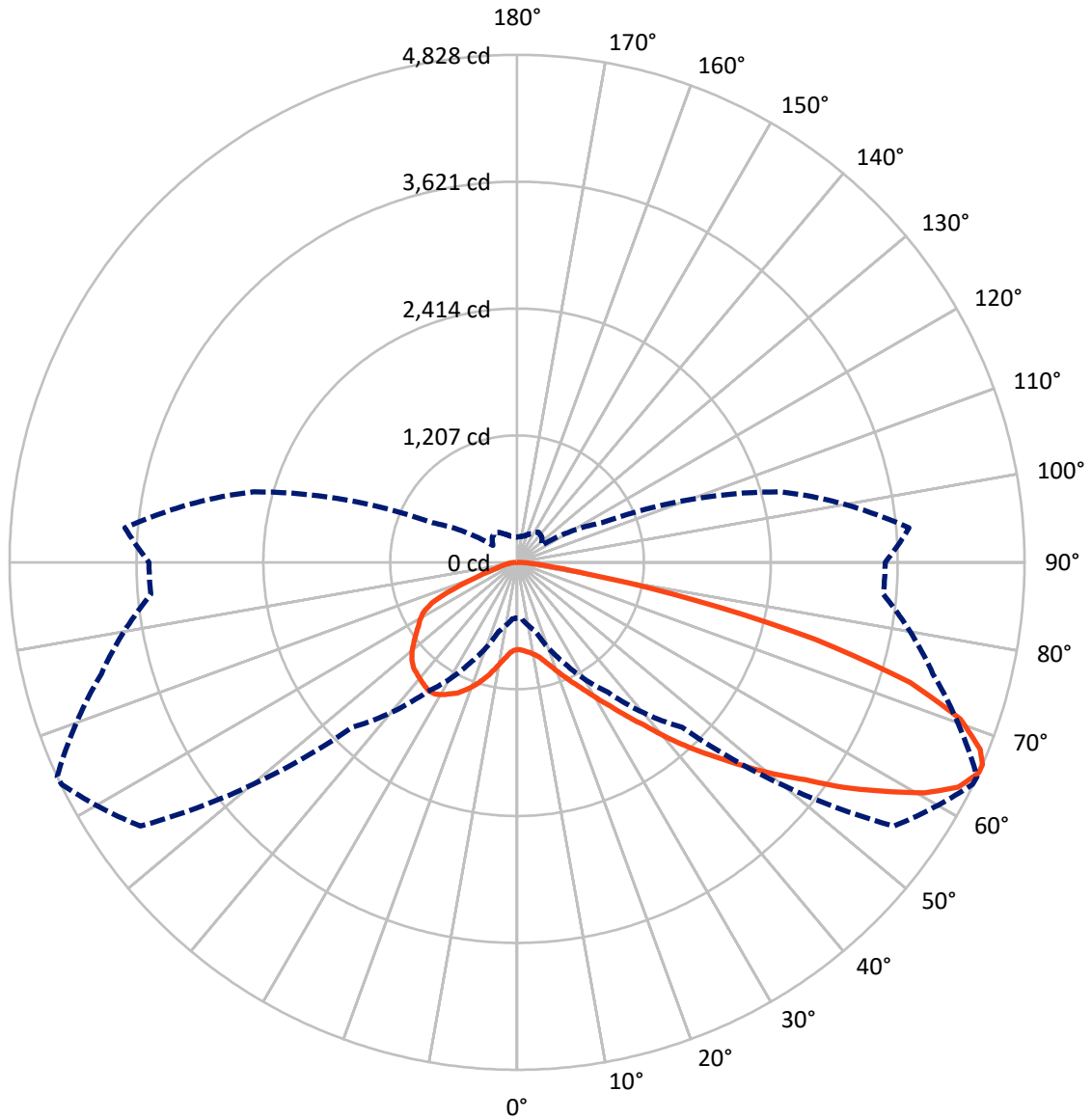
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.2 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	2527.2	0.0	2527.2
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	5795.8	0.0	5795.8
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	8323.0	0.0	8323.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.6	1.0
10°-20°	295.0	3.5
20°-30°	577.7	6.9
30°-40°	944.0	11.3
40°-50°	1498.3	18.0
50°-60°	1927.1	23.2
60°-70°	1737.9	20.9
70°-80°	1077.9	13.0
80°-90°	180.6	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°	8323.0	100.0
0°-180°	8323.0	100.0

**Coefficient of Utilization**

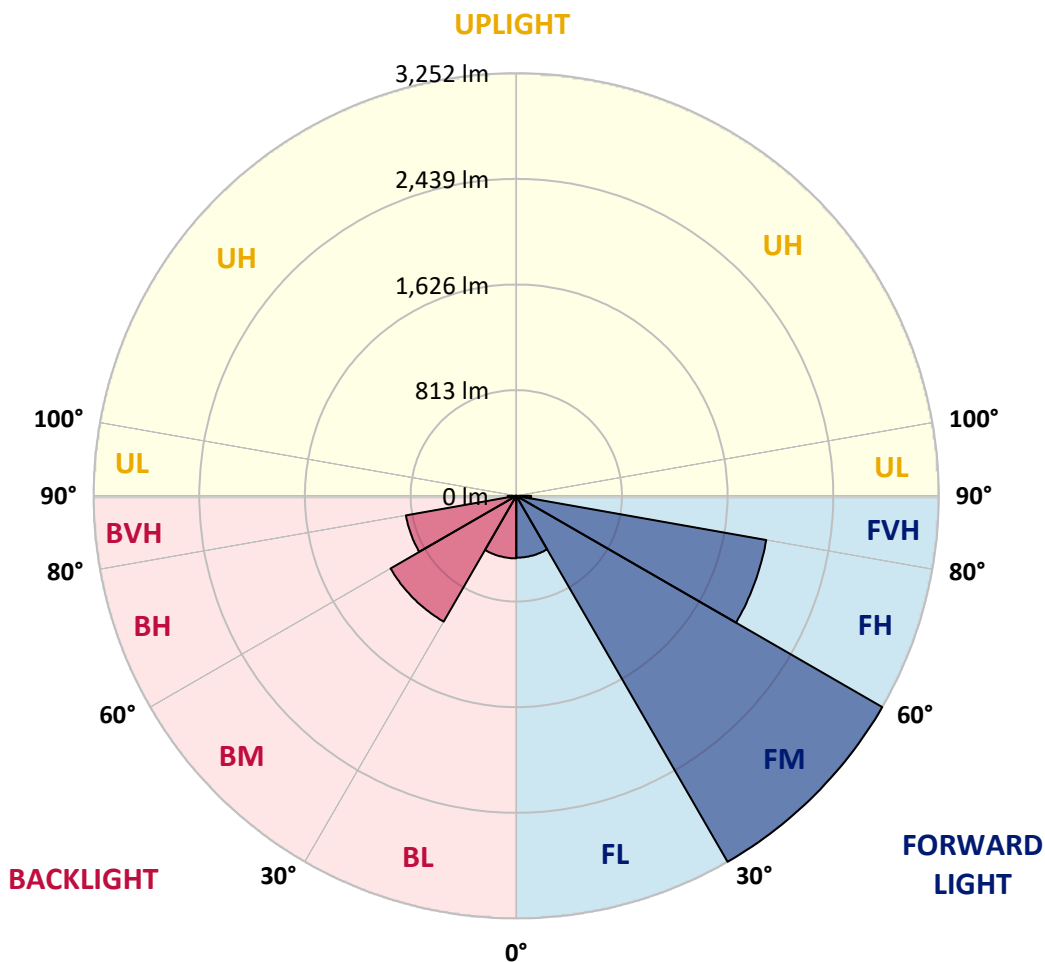


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	476.0	5.7			
FM (30°-60°)	3252.2	39.1			
FH (60°-80°)	1953.4	23.5			G2/5000
FVH (80°-90°)	114.2	1.4			G2/225
BL (0°-30°)	481.3	5.8	B1/500		
BM (30°-60°)	1117.2	13.4	B2/2500		
BH (60°-80°)	862.3	10.4	B2/1000		G2/1000
BVH (80°-90°)	66.4	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°	829.6	829.6	829.6	829.6	829.6	829.6	829.6	829.6	829.6	829.6	829.6
2.5°	831.6	833.6	835.7	831.6	835.7	837.7	833.6	833.6	835.7	831.6	831.6
5°	825.6	827.6	831.6	833.6	841.7	845.8	847.8	847.8	849.8	847.8	849.8
7.5°	809.4	809.4	817.5	821.5	833.6	847.8	855.8	868.0	868.0	870.0	876.0
10°	825.6	825.6	831.6	837.7	847.8	859.9	872.0	886.1	890.2	904.3	912.4
12.5°	849.8	853.8	861.9	870.0	882.1	896.2	906.3	920.4	922.5	936.6	952.7
15°	890.2	894.2	898.2	908.3	924.5	942.6	960.8	970.9	974.9	983.0	995.1
17.5°	950.7	954.8	956.8	962.8	974.9	999.2	1025.4	1033.5	1037.5	1037.5	1047.6
20°	1053.7	1051.6	1047.6	1035.5	1035.5	1057.7	1094.0	1108.2	1112.2	1104.1	1098.1
22.5°	1172.8	1170.7	1154.6	1140.5	1130.4	1134.4	1170.7	1195.0	1192.9	1176.8	1152.6
25°	1328.2	1332.2	1306.0	1269.6	1239.4	1231.3	1253.5	1277.7	1281.7	1251.5	1211.1
27.5°	1513.9	1507.8	1493.7	1435.2	1376.6	1340.3	1352.4	1378.6	1380.7	1348.4	1283.8
30°	1731.9	1721.8	1685.5	1624.9	1534.1	1483.6	1473.5	1495.7	1501.8	1447.3	1354.4
32.5°	1974.1	1964.0	1917.6	1824.7	1725.8	1641.0	1608.7	1639.0	1635.0	1572.4	1443.2
35°	2266.8	2264.8	2180.0	2064.9	1939.8	1826.7	1782.3	1782.3	1794.4	1701.6	1556.3
37.5°	2658.4	2674.5	2549.4	2369.7	2194.1	2042.7	1968.0	1964.0	1966.0	1865.1	1683.4
40°	3011.6	3005.6	2932.9	2765.3	2509.0	2315.2	2204.2	2180.0	2186.0	2056.9	1848.9
42.5°	3215.5	3221.5	3203.4	3130.7	2906.6	2662.4	2472.7	2408.1	2410.1	2248.6	2006.4
45°	3342.6	3348.7	3346.7	3383.0	3294.2	3064.1	2793.6	2644.2	2636.2	2466.6	2192.1
47.5°	3415.3	3419.3	3445.6	3520.3	3592.9	3540.5	3148.9	2906.6	2890.5	2670.5	2377.8
50°	3334.6	3336.6	3441.5	3619.2	3796.8	3956.3	3512.2	3167.0	3163.0	2896.6	2559.5
52.5°	2910.7	2947.0	3179.1	3550.5	3948.2	4251.0	3932.0	3473.8	3439.5	3110.5	2741.1
55°	2375.8	2391.9	2658.4	3130.7	3919.9	4432.6	4249.0	3804.9	3780.7	3348.7	2918.8
57.5°	1855.0	1871.2	2188.1	2581.7	3488.0	4422.5	4473.0	4162.2	4107.7	3556.6	3096.4
60°	1197.0	1247.4	1614.8	2099.2	2823.9	4115.7	4586.0	4505.3	4454.8	3762.5	3247.8
62.5°	813.5	821.5	1051.6	1556.3	2113.4	3344.7	4578.0	4717.2	4709.2	3968.4	3399.2
65°	528.8	541.0	680.2	1053.7	1511.9	2220.4	4376.1	4820.2	4828.3	4095.5	3498.1
66°	448.1	456.2	563.2	886.1	1324.1	1760.1	4198.5	4812.1	4828.3	4154.1	3528.3
67.5°	389.6	395.6	450.1	654.0	1081.9	1265.6	3736.3	4705.1	4751.6	4208.6	3566.7
70°	335.1	343.1	393.6	446.1	773.1	738.8	2365.7	4430.6	4477.0	4234.8	3590.9
72.5°	276.5	282.6	333.1	403.7	561.1	496.6	1043.6	3792.8	3909.8	4137.9	3552.6
75°	218.0	222.0	268.5	337.1	429.9	387.6	454.2	2781.5	2928.8	3647.4	3403.2
77.5°	169.6	171.6	207.9	262.4	393.6	300.8	280.6	1354.4	1713.7	2817.8	2997.5
80°	117.1	121.1	153.4	197.8	288.6	238.2	187.7	528.8	672.2	1871.2	2272.8
82.5°	76.7	78.7	105.0	149.4	191.8	228.1	123.1	256.3	282.6	861.9	985.0
85°	52.5	52.5	74.7	92.9	131.2	151.4	80.7	135.2	147.4	327.0	119.1
87.5°	26.2	26.2	36.3	48.4	62.6	58.5	48.4	48.4	48.4	107.0	34.3
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°	829.6	829.6	829.6	829.6	829.6	829.6	829.6	829.6	829.6	829.6	829.6
2.5°	833.6	833.6	835.7	837.7	839.7	839.7	841.7	841.7	839.7	841.7	843.7
5°	851.8	853.8	857.9	863.9	874.0	884.1	894.2	900.3	906.3	908.3	904.3
7.5°	880.1	884.1	898.2	914.4	930.5	954.8	968.9	977.0	981.0	985.0	981.0
10°	916.4	924.5	944.7	972.9	1001.2	1031.5	1047.6	1059.7	1061.7	1065.8	1061.7
12.5°	958.8	972.9	1003.2	1043.6	1077.9	1108.2	1120.3	1112.2	1094.0	1086.0	1083.9
15°	1009.3	1023.4	1065.8	1116.2	1156.6	1170.7	1152.6	1126.3	1106.1	1104.1	1102.1
17.5°	1053.7	1073.8	1132.4	1184.9	1223.2	1209.1	1160.6	1144.5	1138.4	1146.5	1144.5
20°	1110.2	1126.3	1184.9	1249.5	1269.6	1215.1	1180.8	1170.7	1164.7	1164.7	1160.6
22.5°	1156.6	1168.7	1239.4	1310.0	1297.9	1219.2	1195.0	1174.8	1154.6	1152.6	1146.5
25°	1211.1	1215.1	1289.8	1366.5	1301.9	1223.2	1180.8	1146.5	1126.3	1120.3	1122.3
27.5°	1261.6	1271.7	1336.2	1404.9	1291.8	1201.0	1132.4	1088.0	1057.7	1055.7	1055.7
30°	1326.2	1326.2	1384.7	1447.3	1269.6	1144.5	1053.7	989.1	964.8	962.8	958.8
32.5°	1398.8	1386.7	1443.2	1477.5	1221.2	1067.8	946.7	874.0	835.7	827.6	821.5
35°	1499.7	1473.5	1513.9	1483.6	1172.8	958.8	811.4	728.7	700.4	688.3	688.3
37.5°	1616.8	1578.5	1620.9	1465.4	1098.1	831.6	670.1	607.6	577.3	559.1	565.2
40°	1754.1	1705.6	1729.9	1445.2	1017.3	690.3	553.1	514.7	478.4	454.2	454.2
42.5°	1915.6	1834.8	1853.0	1425.1	902.3	567.2	478.4	452.1	423.9	399.7	405.7
45°	2071.0	1992.3	1974.1	1404.9	781.2	484.4	448.1	429.9	403.7	375.4	375.4
47.5°	2250.6	2149.7	2081.1	1368.5	662.1	458.2	456.2	429.9	379.5	339.1	335.1
50°	2420.2	2327.3	2178.0	1314.0	595.5	480.4	454.2	391.6	343.1	316.9	314.9
52.5°	2599.8	2502.9	2256.7	1247.4	561.1	470.3	417.8	359.3	323.0	296.7	290.7
55°	2777.5	2727.0	2327.3	1182.8	506.6	438.0	387.6	339.1	300.8	276.5	272.5
57.5°	2979.3	2959.1	2387.9	1118.3	421.9	397.6	365.3	325.0	288.6	270.5	268.5
60°	3154.9	3225.6	2460.6	1069.8	359.3	367.4	355.3	323.0	296.7	276.5	276.5
62.5°	3340.6	3481.9	2525.1	1007.2	312.9	349.2	357.3	320.9	286.6	268.5	268.5
65°	3502.1	3744.3	2591.8	892.2	280.6	335.1	351.2	298.7	258.4	244.2	240.2
66°	3570.7	3819.0	2611.9	821.5	268.5	325.0	341.1	286.6	246.3	234.1	232.1
67.5°	3651.5	3936.1	2636.2	670.1	250.3	302.8	318.9	268.5	226.1	218.0	214.0
70°	3764.5	3960.3	2622.0	438.0	218.0	260.4	284.6	240.2	201.9	195.8	189.7
72.5°	3776.6	3794.8	2480.7	276.5	189.7	224.1	250.3	216.0	177.6	171.6	167.5
75°	3576.8	3362.8	2099.2	197.8	167.5	197.8	220.0	187.7	147.4	139.3	135.2
77.5°	3054.0	2668.5	1509.8	147.4	145.3	169.6	183.7	163.5	123.1	117.1	115.1
80°	2143.7	1810.6	756.9	111.0	115.1	141.3	153.4	137.3	102.9	94.9	90.8
82.5°	868.0	769.0	260.4	82.8	86.8	107.0	131.2	113.0	78.7	68.6	60.6
85°	98.9	167.5	113.0	56.5	58.5	72.7	88.8	68.6	46.4	38.4	32.3
87.5°	20.2	36.3	40.4	22.2	20.2	28.3	40.4	24.2	16.1	6.1	8.1
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)