

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: P595256

Luminaire Tested: **IST-PA1D-830-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595256  
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-830-U-T2U  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 3000K, 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: 6614 lumens  
Efficiency: N/A  
Efficacy: 106.0 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

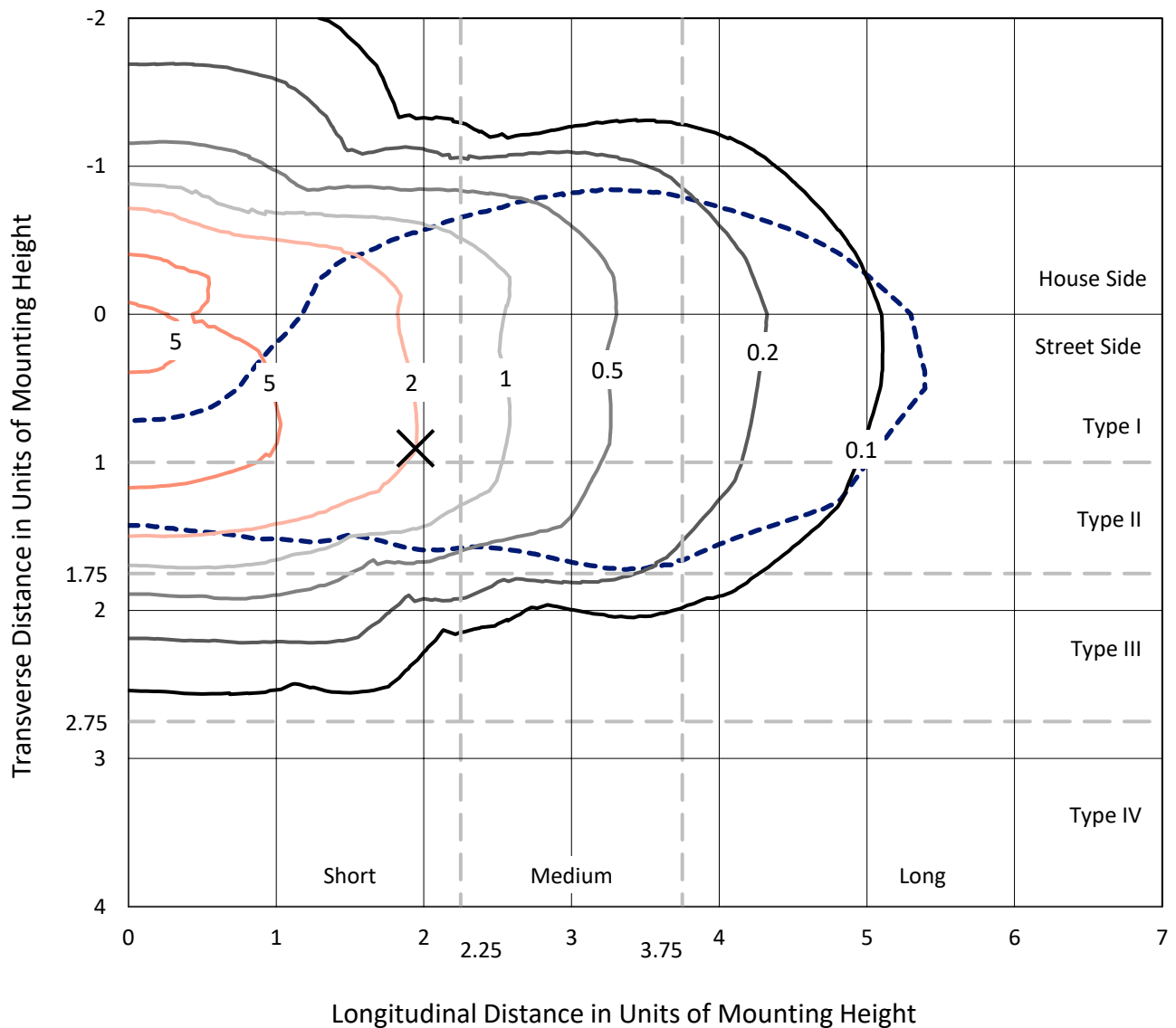
Input Watts (W): 62.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P595256  
 CATALOG NUMBER: IST-PA1D-830-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

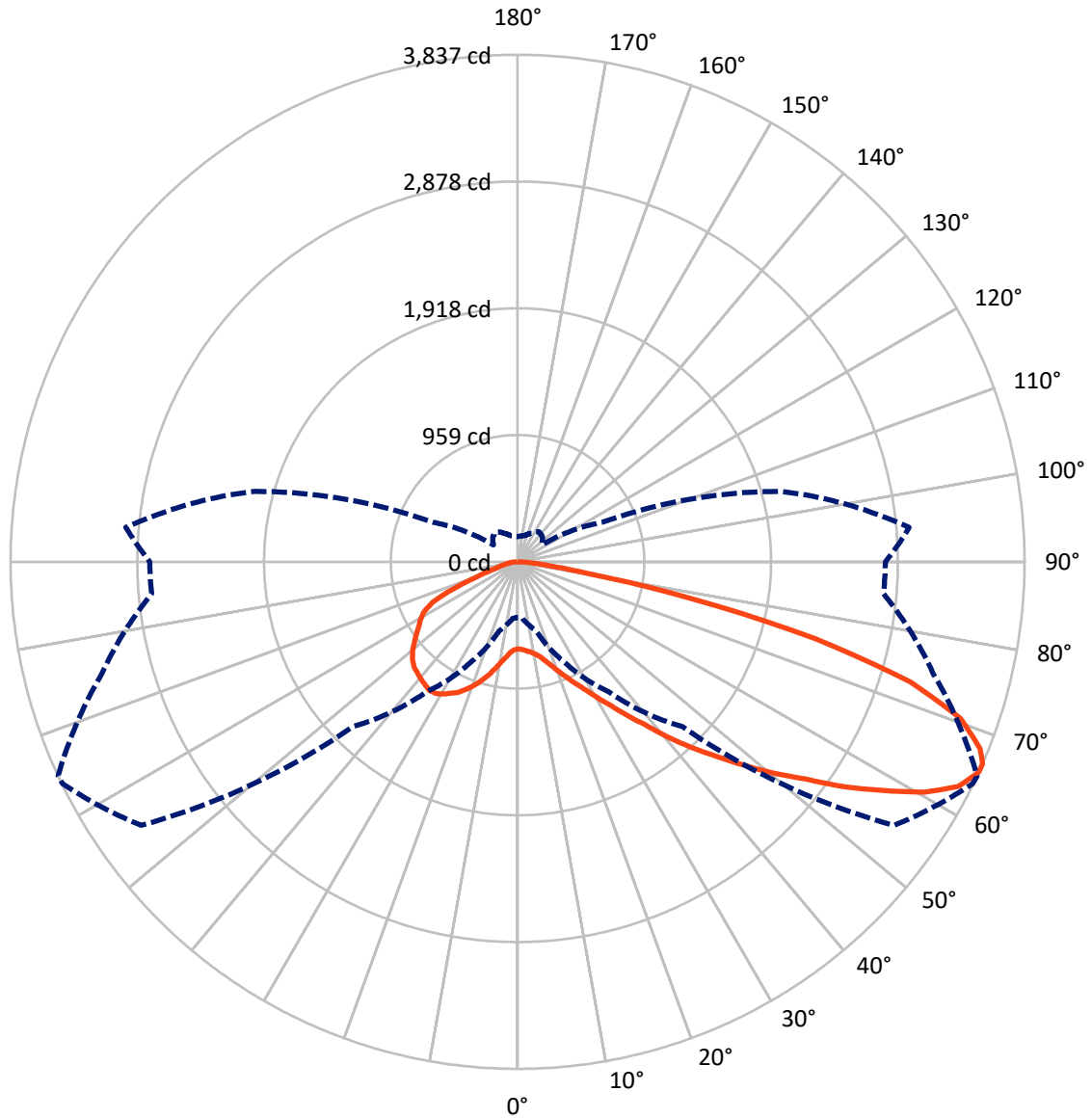
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P595256  
CATALOG NUMBER: IST-PA1D-830-U-T2U

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P595256  
 CATALOG NUMBER: IST-PA1D-830-U-T2U

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2008.3	0.0	2008.3
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	4605.7	0.0	4605.7
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	6614.0	0.0	6614.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.2	1.0
10°-20°	234.4	3.5
20°-30°	459.1	6.9
30°-40°	750.1	11.3
40°-50°	1190.7	18.0
50°-60°	1531.4	23.2
60°-70°	1381.0	20.9
70°-80°	856.5	13.0
80°-90°	143.5	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°	6614.0	100.0
0°-180°	6614.0	100.0

**Coefficient of Utilization**

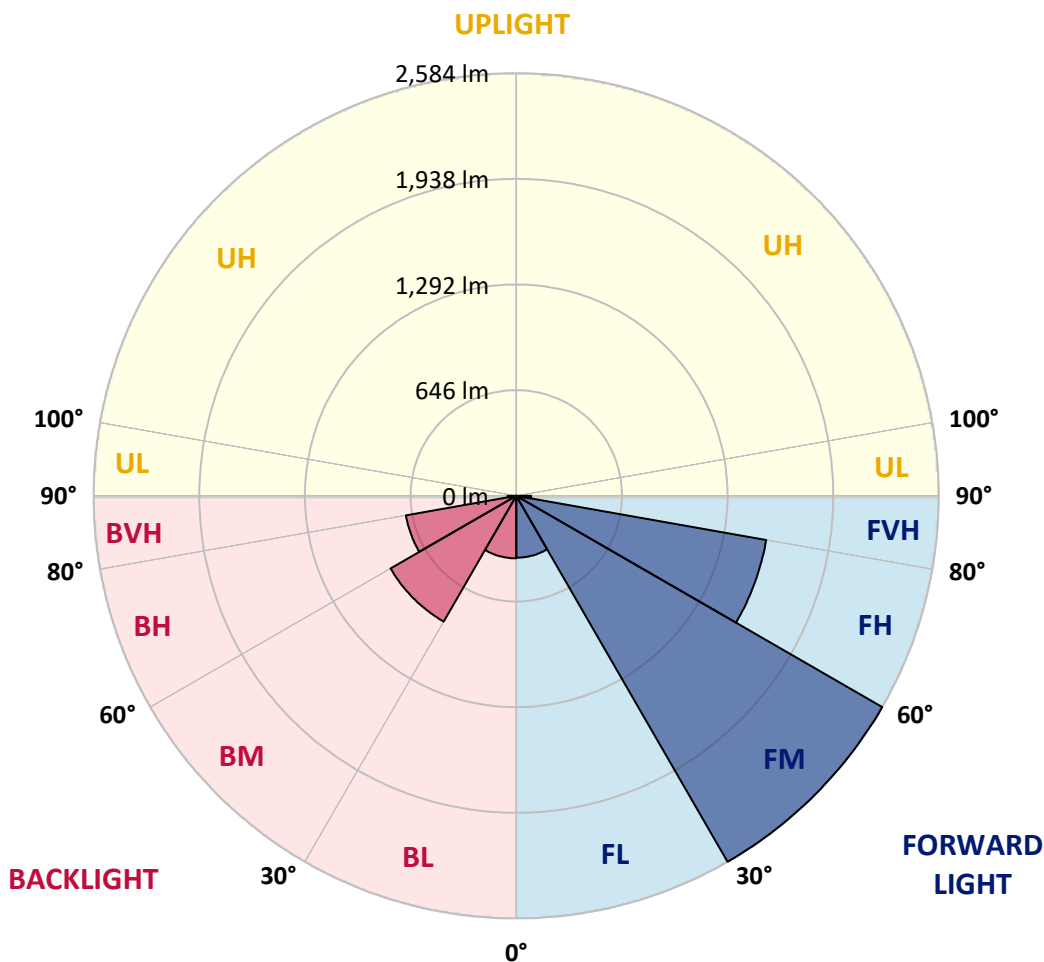


REPORT NUMBER: P595256  
 CATALOG NUMBER: IST-PA1D-830-U-T2U

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	378.2	5.7			
FM (30°-60°)	2584.4	39.1			
FH (60°-80°)	1552.3	23.5			G1/1800
FVH (80°-90°)	90.8	1.4			G1/100
BL (0°-30°)	382.5	5.8	B1/500		
BM (30°-60°)	887.8	13.4	B1/1000		
BH (60°-80°)	685.2	10.4	B2/1000		G2/1000
BVH (80°-90°)	52.7	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





REPORT NUMBER: P595256  
 CATALOG NUMBER: IST-PA1D-830-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3
2.5°	660.9	662.5	664.1	660.9	664.1	665.7	662.5	662.5	664.1	660.9	660.9
5°	656.1	657.7	660.9	662.5	668.9	672.1	673.7	673.7	675.3	673.7	675.3
7.5°	643.2	643.2	649.6	652.8	662.5	673.7	680.1	689.7	689.7	691.3	696.2
10°	656.1	656.1	660.9	665.7	673.7	683.3	692.9	704.2	707.4	718.6	725.0
12.5°	675.3	678.5	684.9	691.3	701.0	712.2	720.2	731.4	733.0	744.3	757.1
15°	707.4	710.6	713.8	721.8	734.6	749.1	763.5	771.5	774.7	781.2	790.8
17.5°	755.5	758.7	760.3	765.1	774.7	794.0	814.8	821.3	824.5	824.5	832.5
20°	837.3	835.7	832.5	822.9	822.9	840.5	869.4	880.6	883.8	877.4	872.6
22.5°	931.9	930.3	917.5	906.3	898.3	901.5	930.3	949.6	948.0	935.2	915.9
25°	1055.5	1058.7	1037.8	1008.9	984.9	978.5	996.1	1015.4	1018.6	994.5	962.4
27.5°	1203.0	1198.2	1187.0	1140.5	1094.0	1065.1	1074.7	1095.6	1097.2	1071.5	1020.2
30°	1376.3	1368.2	1339.4	1291.2	1219.1	1179.0	1170.9	1188.6	1193.4	1150.1	1076.3
32.5°	1568.7	1560.7	1523.8	1450.0	1371.4	1304.1	1278.4	1302.5	1299.3	1249.5	1146.9
35°	1801.3	1799.7	1732.4	1640.9	1541.5	1451.7	1416.4	1416.4	1426.0	1352.2	1236.7
37.5°	2112.5	2125.3	2025.9	1883.1	1743.6	1623.3	1563.9	1560.7	1562.3	1482.1	1337.8
40°	2393.2	2388.4	2330.7	2197.5	1993.8	1839.8	1751.6	1732.4	1737.2	1634.5	1469.3
42.5°	2555.2	2560.0	2545.6	2487.9	2309.8	2115.7	1964.9	1913.6	1915.2	1786.9	1594.4
45°	2656.3	2661.1	2659.5	2688.4	2617.8	2434.9	2220.0	2101.3	2094.9	1960.1	1742.0
47.5°	2714.0	2717.2	2738.1	2797.4	2855.2	2813.5	2502.3	2309.8	2297.0	2122.1	1889.6
50°	2649.9	2651.5	2734.9	2876.0	3017.2	3143.9	2791.0	2516.7	2513.5	2301.8	2033.9
52.5°	2313.0	2341.9	2526.4	2821.5	3137.5	3378.1	3124.7	2760.5	2733.3	2471.8	2178.3
55°	1887.9	1900.8	2112.5	2487.9	3115.0	3522.5	3376.5	3023.6	3004.4	2661.1	2319.4
57.5°	1474.1	1486.9	1738.8	2051.6	2771.8	3514.4	3554.5	3307.5	3264.2	2826.3	2460.6
60°	951.2	991.3	1283.2	1668.2	2244.0	3270.6	3644.4	3580.2	3540.1	2989.9	2580.9
62.5°	646.4	652.8	835.7	1236.7	1679.4	2657.9	3638.0	3748.6	3742.2	3153.5	2701.2
65°	420.3	429.9	540.6	837.3	1201.4	1764.4	3477.5	3830.4	3836.9	3254.6	2779.8
66°	356.1	362.5	447.5	704.2	1052.2	1398.7	3336.4	3824.0	3836.9	3301.1	2803.9
67.5°	309.6	314.4	357.7	519.7	859.8	1005.7	2969.1	3739.0	3775.9	3344.4	2834.3
70°	266.3	272.7	312.8	354.5	614.3	587.1	1879.9	3520.9	3557.7	3365.3	2853.6
72.5°	219.8	224.6	264.7	320.8	445.9	394.6	829.3	3014.0	3107.0	3288.3	2823.1
75°	173.2	176.4	213.3	267.9	341.7	308.0	360.9	2210.4	2327.5	2898.5	2704.4
77.5°	134.7	136.3	165.2	208.5	312.8	239.0	223.0	1076.3	1361.8	2239.2	2382.0
80°	93.0	96.2	121.9	157.2	229.4	189.3	149.2	420.3	534.1	1486.9	1806.1
82.5°	61.0	62.6	83.4	118.7	152.4	181.3	97.8	203.7	224.6	684.9	782.8
85°	41.7	41.7	59.3	73.8	104.3	120.3	64.2	107.5	117.1	259.9	94.6
87.5°	20.9	20.9	28.9	38.5	49.7	46.5	38.5	38.5	38.5	85.0	27.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P595256  
 CATALOG NUMBER: IST-PA1D-830-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3
2.5°	662.5	662.5	664.1	665.7	667.3	667.3	668.9	668.9	667.3	668.9	670.5
5°	676.9	678.5	681.7	686.5	694.5	702.6	710.6	715.4	720.2	721.8	718.6
7.5°	699.4	702.6	713.8	726.6	739.5	758.7	769.9	776.4	779.6	782.8	779.6
10°	728.2	734.6	750.7	773.1	795.6	819.7	832.5	842.1	843.7	846.9	843.7
12.5°	761.9	773.1	797.2	829.3	856.6	880.6	890.2	883.8	869.4	863.0	861.4
15°	802.0	813.2	846.9	887.0	919.1	930.3	915.9	895.1	879.0	877.4	875.8
17.5°	837.3	853.3	899.9	941.6	972.0	960.8	922.3	909.5	904.7	911.1	909.5
20°	882.2	895.1	941.6	992.9	1008.9	965.6	938.4	930.3	925.5	925.5	922.3
22.5°	919.1	928.7	984.9	1041.0	1031.4	968.8	949.6	933.5	917.5	915.9	911.1
25°	962.4	965.6	1025.0	1085.9	1034.6	972.0	938.4	911.1	895.1	890.2	891.8
27.5°	1002.5	1010.5	1061.9	1116.4	1026.6	954.4	899.9	864.6	840.5	838.9	838.9
30°	1053.9	1053.9	1100.4	1150.1	1008.9	909.5	837.3	786.0	766.7	765.1	761.9
32.5°	1111.6	1102.0	1146.9	1174.2	970.4	848.5	752.3	694.5	664.1	657.7	652.8
35°	1191.8	1170.9	1203.0	1179.0	931.9	761.9	644.8	579.1	556.6	547.0	547.0
37.5°	1284.8	1254.4	1288.0	1164.5	872.6	660.9	532.5	482.8	458.8	444.3	449.1
40°	1393.9	1355.4	1374.7	1148.5	808.4	548.6	439.5	409.0	380.2	360.9	360.9
42.5°	1522.2	1458.1	1472.5	1132.4	717.0	450.7	380.2	359.3	336.8	317.6	322.4
45°	1645.7	1583.2	1568.7	1116.4	620.8	385.0	356.1	341.7	320.8	298.4	298.4
47.5°	1788.5	1708.3	1653.8	1087.5	526.1	364.1	362.5	341.7	301.6	269.5	266.3
50°	1923.2	1849.5	1730.8	1044.2	473.2	381.8	360.9	311.2	272.7	251.8	250.2
52.5°	2066.0	1989.0	1793.3	991.3	445.9	373.7	332.0	285.5	256.6	235.8	231.0
55°	2207.2	2167.1	1849.5	940.0	402.6	348.1	308.0	269.5	239.0	219.8	216.5
57.5°	2367.6	2351.5	1897.6	888.6	335.2	316.0	290.3	258.2	229.4	214.9	213.3
60°	2507.1	2563.2	1955.3	850.1	285.5	291.9	282.3	256.6	235.8	219.8	219.8
62.5°	2654.7	2767.0	2006.6	800.4	248.6	277.5	283.9	255.0	227.8	213.3	213.3
65°	2783.0	2975.5	2059.6	709.0	223.0	266.3	279.1	237.4	205.3	194.1	190.9
66°	2837.5	3034.8	2075.6	652.8	213.3	258.2	271.1	227.8	195.7	186.1	184.5
67.5°	2901.7	3127.9	2094.9	532.5	198.9	240.6	253.4	213.3	179.7	173.2	170.0
70°	2991.5	3147.1	2083.6	348.1	173.2	206.9	226.2	190.9	160.4	155.6	150.8
72.5°	3001.1	3015.6	1971.4	219.8	150.8	178.0	198.9	171.6	141.2	136.3	133.1
75°	2842.3	2672.3	1668.2	157.2	133.1	157.2	174.8	149.2	117.1	110.7	107.5
77.5°	2426.9	2120.5	1199.8	117.1	115.5	134.7	146.0	129.9	97.8	93.0	91.4
80°	1703.5	1438.8	601.5	88.2	91.4	112.3	121.9	109.1	81.8	75.4	72.2
82.5°	689.7	611.1	206.9	65.8	69.0	85.0	104.3	89.8	62.6	54.5	48.1
85°	78.6	133.1	89.8	44.9	46.5	57.7	70.6	54.5	36.9	30.5	25.7
87.5°	16.0	28.9	32.1	17.6	16.0	22.5	32.1	19.2	12.8	4.8	6.4
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)