

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: P595247

Luminaire Tested: **IST-PA1D-827-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595247  
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-827-U-T2U  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 2700K, 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: 6119 lumens  
Efficiency: N/A  
Efficacy: 98.1 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

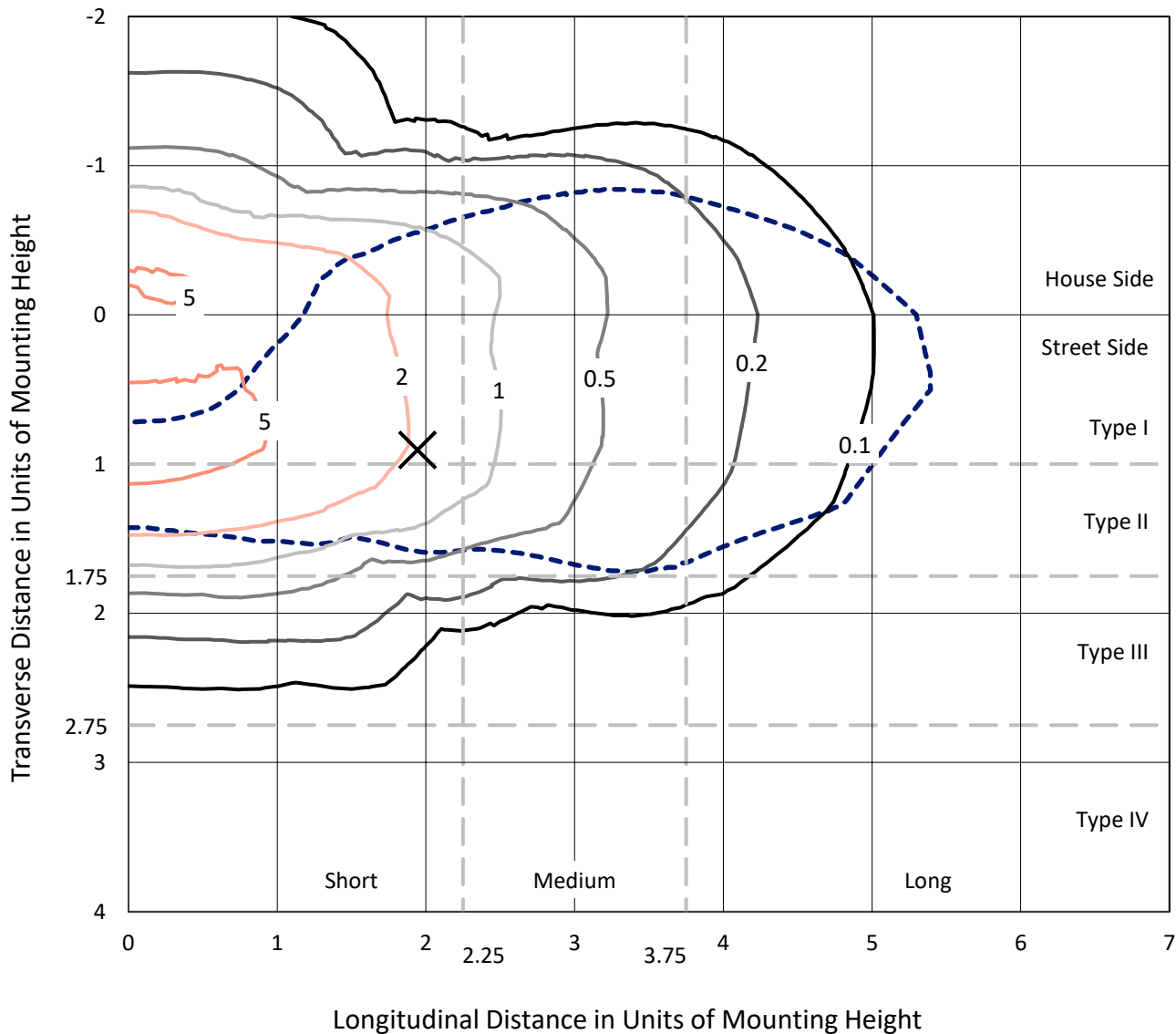
Input Watts (W): 62.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P595247  
 CATALOG NUMBER: IST-PA1D-827-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

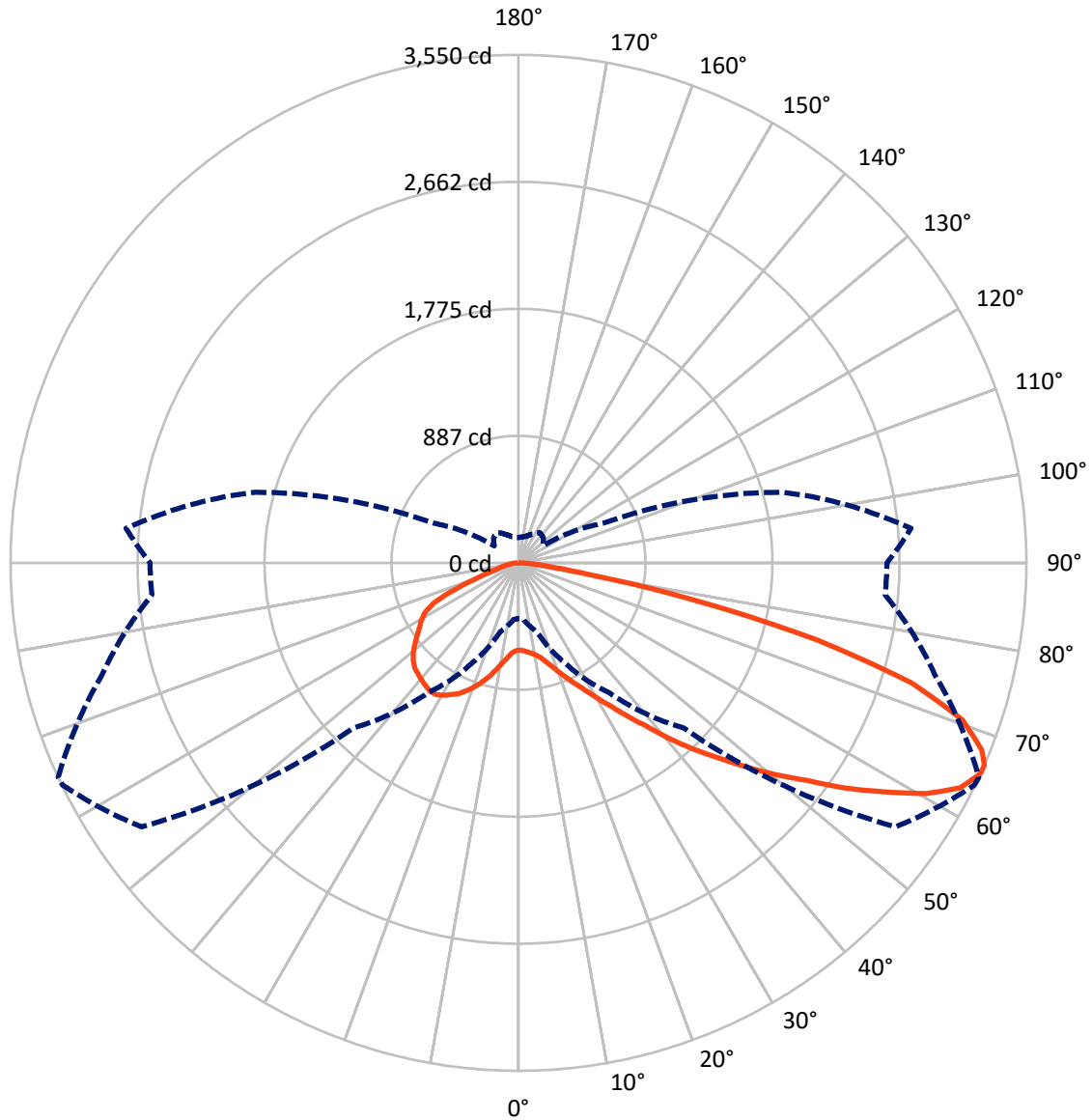
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P595247  
CATALOG NUMBER: IST-PA1D-827-U-T2U

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P595247  
 CATALOG NUMBER: IST-PA1D-827-U-T2U

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1858.0	0.0	1858.0
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	4261.0	0.0	4261.0
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	6119.0	0.0	6119.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.2	1.0
10°-20°	216.9	3.5
20°-30°	424.7	6.9
30°-40°	694.0	11.3
40°-50°	1101.6	18.0
50°-60°	1416.8	23.2
60°-70°	1277.7	20.9
70°-80°	792.4	13.0
80°-90°	132.8	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°	6119.0	100.0
0°-180°	6119.0	100.0

**Coefficient of Utilization**



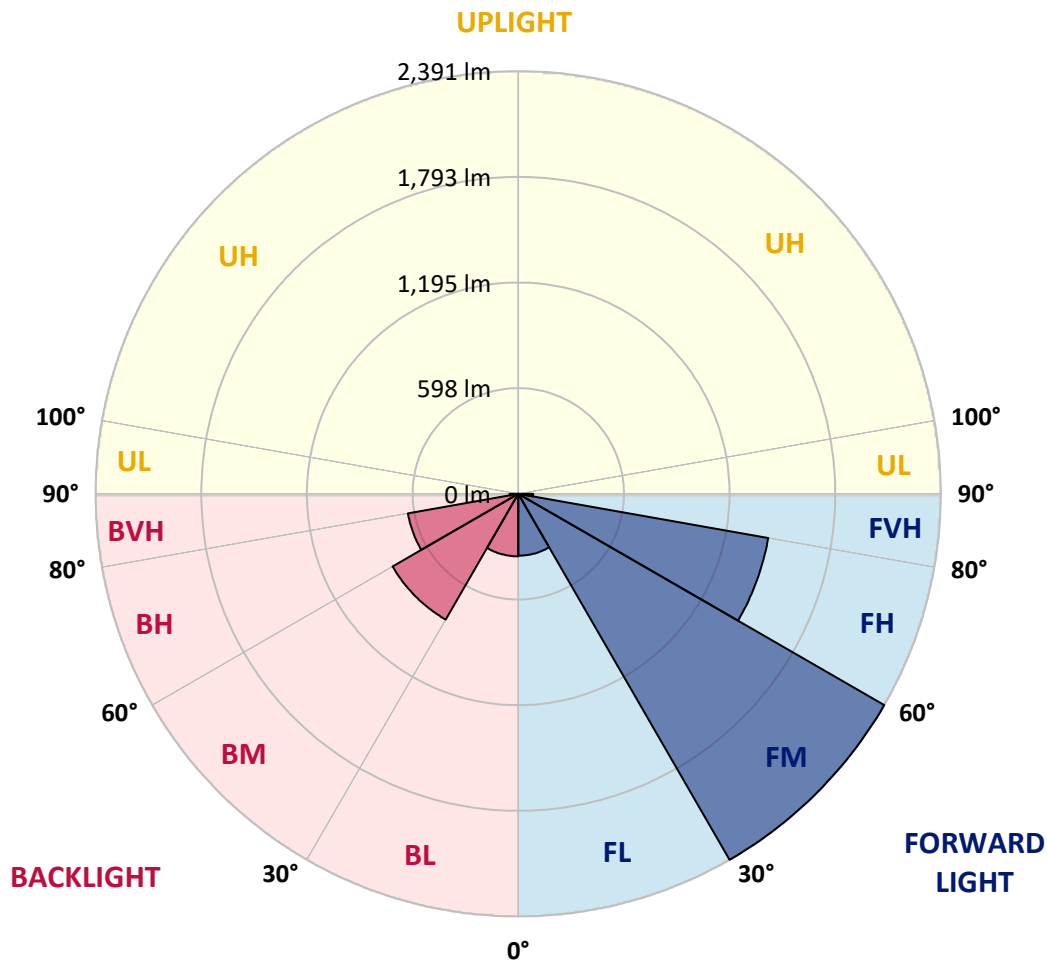
REPORT NUMBER: P595247  
 CATALOG NUMBER: IST-PA1D-827-U-T2U

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	349.9	5.7			
FM (30°-60°)	2391.0	39.1			
FH (60°-80°)	1436.1	23.5			G1/1800
FVH (80°-90°)	84.0	1.4			G1/100
BL (0°-30°)	353.9	5.8	B1/500		
BM (30°-60°)	821.4	13.4	B1/1000		
BH (60°-80°)	633.9	10.4	B2/1000		G2/1000
BVH (80°-90°)	48.8	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: P595247

CATALOG NUMBER: IST-PA1D-827-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9
2.5°	611.4	612.9	614.4	611.4	614.4	615.9	612.9	612.9	614.4	611.4	611.4
5°	607.0	608.4	611.4	612.9	618.8	621.8	623.3	623.3	624.8	623.3	624.8
7.5°	595.1	595.1	601.0	604.0	612.9	623.3	629.2	638.1	638.1	639.6	644.1
10°	607.0	607.0	611.4	615.9	623.3	632.2	641.1	651.5	654.4	664.8	670.8
12.5°	624.8	627.7	633.7	639.6	648.5	658.9	666.3	676.7	678.2	688.6	700.4
15°	654.4	657.4	660.4	667.8	679.7	693.0	706.4	713.8	716.8	722.7	731.6
17.5°	699.0	701.9	703.4	707.9	716.8	734.6	753.9	759.8	762.8	762.8	770.2
20°	774.6	773.2	770.2	761.3	761.3	777.6	804.3	814.7	817.7	811.7	807.3
22.5°	862.2	860.7	848.8	838.5	831.0	834.0	860.7	878.5	877.0	865.2	847.4
25°	976.5	979.4	960.1	933.4	911.2	905.2	921.6	939.4	942.3	920.1	890.4
27.5°	1113.0	1108.5	1098.2	1055.1	1012.1	985.4	994.3	1013.6	1015.0	991.3	943.8
30°	1273.3	1265.8	1239.1	1194.6	1127.8	1090.7	1083.3	1099.6	1104.1	1064.0	995.8
32.5°	1451.3	1443.9	1409.8	1341.5	1268.8	1206.5	1182.7	1205.0	1202.0	1156.0	1061.1
35°	1666.5	1665.0	1602.7	1518.1	1426.1	1343.0	1310.4	1310.4	1319.3	1251.0	1144.2
37.5°	1954.4	1966.3	1874.3	1742.2	1613.1	1501.8	1446.9	1443.9	1445.4	1371.2	1237.6
40°	2214.1	2209.7	2156.2	2033.1	1844.6	1702.1	1620.5	1602.7	1607.2	1512.2	1359.3
42.5°	2364.0	2368.4	2355.1	2301.7	2136.9	1957.4	1817.9	1770.4	1771.9	1653.2	1475.1
45°	2457.5	2461.9	2460.5	2487.2	2421.9	2252.7	2053.8	1944.0	1938.1	1813.4	1611.6
47.5°	2510.9	2513.9	2533.2	2588.1	2641.5	2602.9	2315.0	2136.9	2125.1	1963.3	1748.1
50°	2451.5	2453.0	2530.2	2660.8	2791.4	2908.6	2582.1	2328.4	2325.4	2129.5	1881.7
52.5°	2139.9	2166.6	2337.3	2610.3	2902.7	3125.3	2890.8	2553.9	2528.7	2286.8	2015.3
55°	1746.7	1758.5	1954.4	2301.7	2881.9	3258.8	3123.8	2797.3	2779.5	2461.9	2145.8
57.5°	1363.8	1375.7	1608.6	1898.0	2564.3	3251.4	3288.5	3060.0	3019.9	2614.8	2276.4
60°	880.0	917.1	1187.2	1543.3	2076.1	3025.8	3371.6	3312.3	3275.2	2766.2	2387.7
62.5°	598.0	604.0	773.2	1144.2	1553.7	2459.0	3365.7	3468.1	3462.1	2917.5	2499.0
65°	388.8	397.7	500.1	774.6	1111.5	1632.4	3217.3	3543.8	3549.7	3011.0	2571.7
66°	329.4	335.4	414.0	651.5	973.5	1294.0	3086.7	3537.8	3549.7	3054.0	2594.0
67.5°	286.4	290.9	330.9	480.8	795.4	930.5	2746.9	3459.2	3493.3	3094.1	2622.2
70°	246.3	252.3	289.4	328.0	568.4	543.1	1739.2	3257.4	3291.5	3113.4	2640.0
72.5°	203.3	207.8	244.9	296.8	412.5	365.1	767.2	2788.4	2874.5	3042.2	2611.8
75°	160.3	163.2	197.4	247.8	316.1	284.9	333.9	2044.9	2153.3	2681.6	2502.0
77.5°	124.7	126.1	152.9	192.9	289.4	221.1	206.3	995.8	1259.9	2071.6	2203.7
80°	86.1	89.0	112.8	145.4	212.2	175.1	138.0	388.8	494.2	1375.7	1671.0
82.5°	56.4	57.9	77.2	109.8	141.0	167.7	90.5	188.5	207.8	633.7	724.2
85°	38.6	38.6	54.9	68.3	96.5	111.3	59.4	99.4	108.3	240.4	87.6
87.5°	19.3	19.3	26.7	35.6	46.0	43.0	35.6	35.6	35.6	78.7	25.2
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: P595247  
 CATALOG NUMBER: IST-PA1D-827-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9
2.5°	612.9	612.9	614.4	615.9	617.3	617.3	618.8	618.8	617.3	618.8	620.3
5°	626.2	627.7	630.7	635.1	642.6	650.0	657.4	661.9	666.3	667.8	664.8
7.5°	647.0	650.0	660.4	672.2	684.1	701.9	712.3	718.2	721.2	724.2	721.2
10°	673.7	679.7	694.5	715.3	736.1	758.3	770.2	779.1	780.6	783.5	780.6
12.5°	704.9	715.3	737.5	767.2	792.4	814.7	823.6	817.7	804.3	798.4	796.9
15°	742.0	752.4	783.5	820.6	850.3	860.7	847.4	828.1	813.2	811.7	810.3
17.5°	774.6	789.5	832.5	871.1	899.3	888.9	853.3	841.4	837.0	842.9	841.4
20°	816.2	828.1	871.1	918.6	933.4	893.4	868.1	860.7	856.3	856.3	853.3
22.5°	850.3	859.2	911.2	963.1	954.2	896.3	878.5	863.7	848.8	847.4	842.9
25°	890.4	893.4	948.3	1004.7	957.2	899.3	868.1	842.9	828.1	823.6	825.1
27.5°	927.5	934.9	982.4	1032.9	949.8	883.0	832.5	799.9	777.6	776.1	776.1
30°	975.0	975.0	1018.0	1064.0	933.4	841.4	774.6	727.2	709.3	707.9	704.9
32.5°	1028.4	1019.5	1061.1	1086.3	897.8	785.0	696.0	642.6	614.4	608.4	604.0
35°	1102.6	1083.3	1113.0	1090.7	862.2	704.9	596.6	535.7	514.9	506.0	506.0
37.5°	1188.7	1160.5	1191.6	1077.4	807.3	611.4	492.7	446.7	424.4	411.1	415.5
40°	1289.6	1254.0	1271.8	1062.5	747.9	507.5	406.6	378.4	351.7	333.9	333.9
42.5°	1408.3	1348.9	1362.3	1047.7	663.3	417.0	351.7	332.4	311.6	293.8	298.3
45°	1522.6	1464.7	1451.3	1032.9	574.3	356.2	329.4	316.1	296.8	276.0	276.0
47.5°	1654.6	1580.4	1530.0	1006.1	486.7	336.9	335.4	316.1	279.0	249.3	246.3
50°	1779.3	1711.0	1601.2	966.1	437.8	353.2	333.9	287.9	252.3	233.0	231.5
52.5°	1911.4	1840.1	1659.1	917.1	412.5	345.8	307.2	264.1	237.4	218.1	213.7
55°	2042.0	2004.9	1711.0	869.6	372.5	322.0	284.9	249.3	221.1	203.3	200.3
57.5°	2190.4	2175.5	1755.6	822.1	310.2	292.3	268.6	238.9	212.2	198.9	197.4
60°	2319.5	2371.4	1809.0	786.5	264.1	270.1	261.2	237.4	218.1	203.3	203.3
62.5°	2456.0	2559.9	1856.5	740.5	230.0	256.7	262.7	236.0	210.7	197.4	197.4
65°	2574.7	2752.8	1905.4	655.9	206.3	246.3	258.2	219.6	190.0	179.6	176.6
66°	2625.2	2807.7	1920.3	604.0	197.4	238.9	250.8	210.7	181.0	172.1	170.7
67.5°	2684.5	2893.8	1938.1	492.7	184.0	222.6	234.5	197.4	166.2	160.3	157.3
70°	2767.6	2911.6	1927.7	322.0	160.3	191.4	209.2	176.6	148.4	143.9	139.5
72.5°	2776.5	2789.9	1823.8	203.3	139.5	164.7	184.0	158.8	130.6	126.1	123.2
75°	2629.6	2472.3	1543.3	145.4	123.2	145.4	161.8	138.0	108.3	102.4	99.4
77.5°	2245.3	1961.8	1110.0	108.3	106.8	124.7	135.0	120.2	90.5	86.1	84.6
80°	1576.0	1331.1	556.5	81.6	84.6	103.9	112.8	100.9	75.7	69.7	66.8
82.5°	638.1	565.4	191.4	60.8	63.8	78.7	96.5	83.1	57.9	50.5	44.5
85°	72.7	123.2	83.1	41.6	43.0	53.4	65.3	50.5	34.1	28.2	23.7
87.5°	14.8	26.7	29.7	16.3	14.8	20.8	29.7	17.8	11.9	4.5	5.9
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)