

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: P595035

Luminaire Tested: **IST-PA1B-727-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595035  
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-PA1B-727-U-T4W  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4284 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

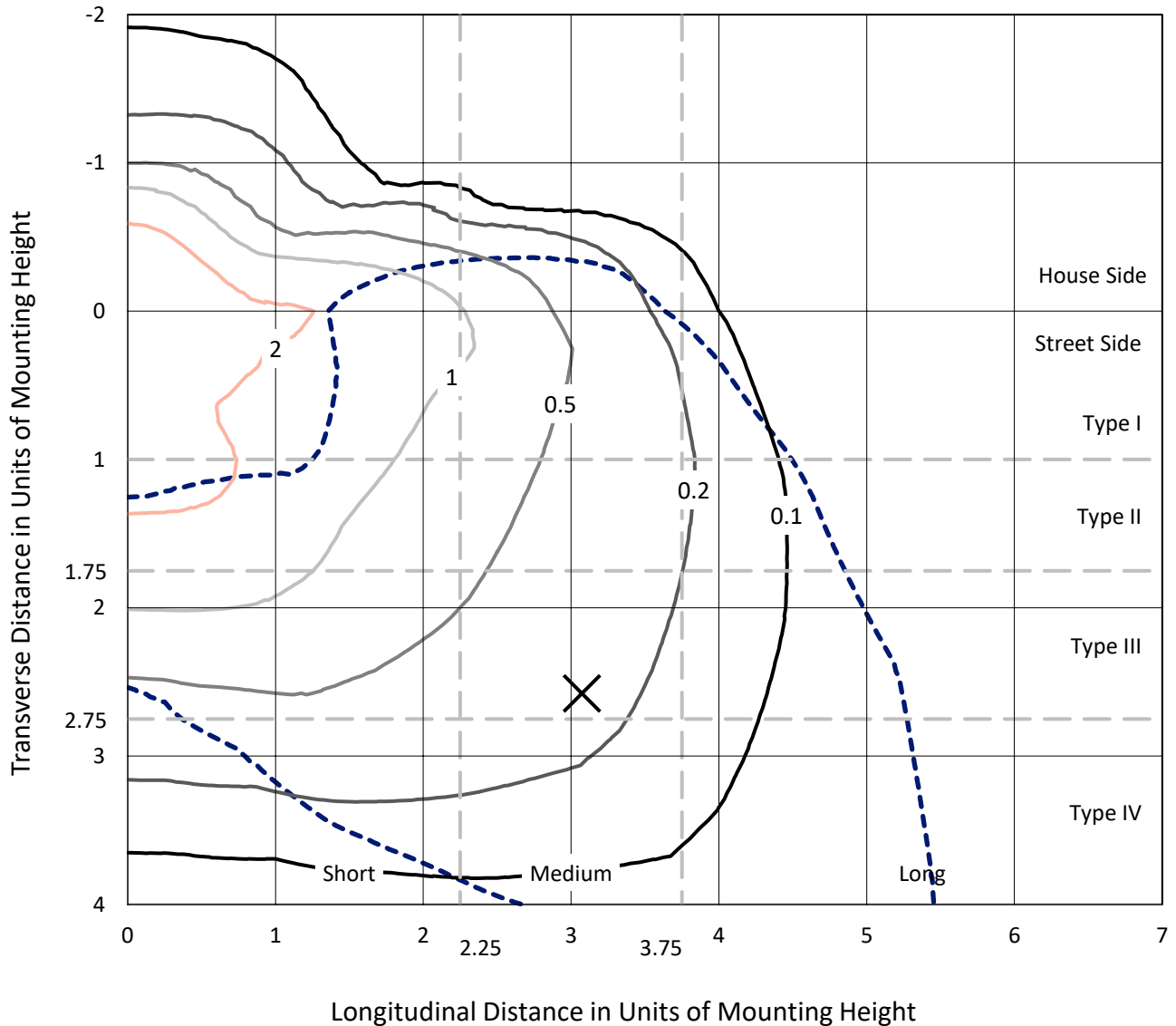
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P595035  
 CATALOG NUMBER: IST-PA1B-727-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

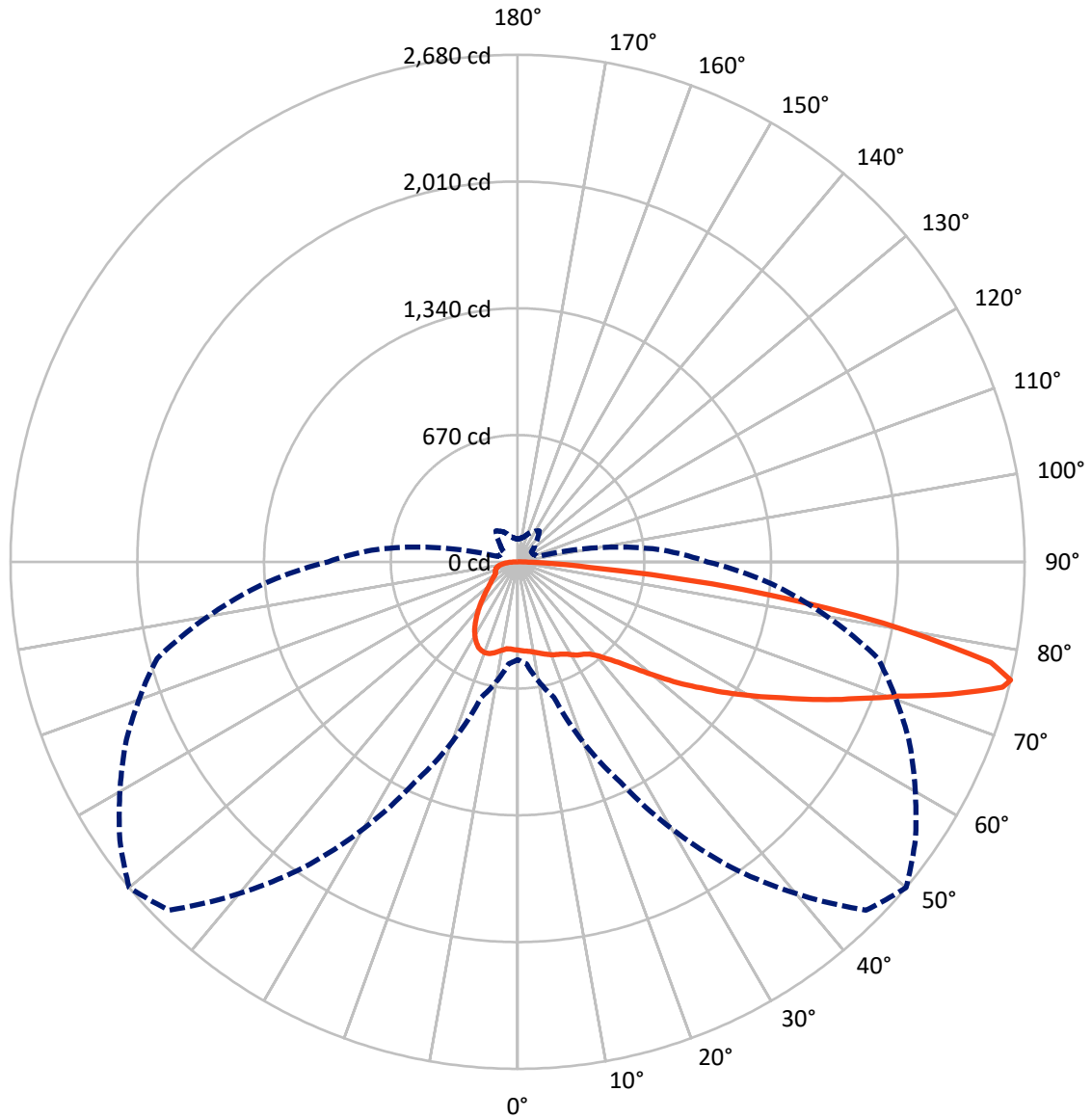
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P595035  
CATALOG NUMBER: IST-PA1B-727-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral      - - - Horizontal Cone Through 76-Deg Vertical

REPORT NUMBER: P595035  
 CATALOG NUMBER: IST-PA1B-727-U-T4W

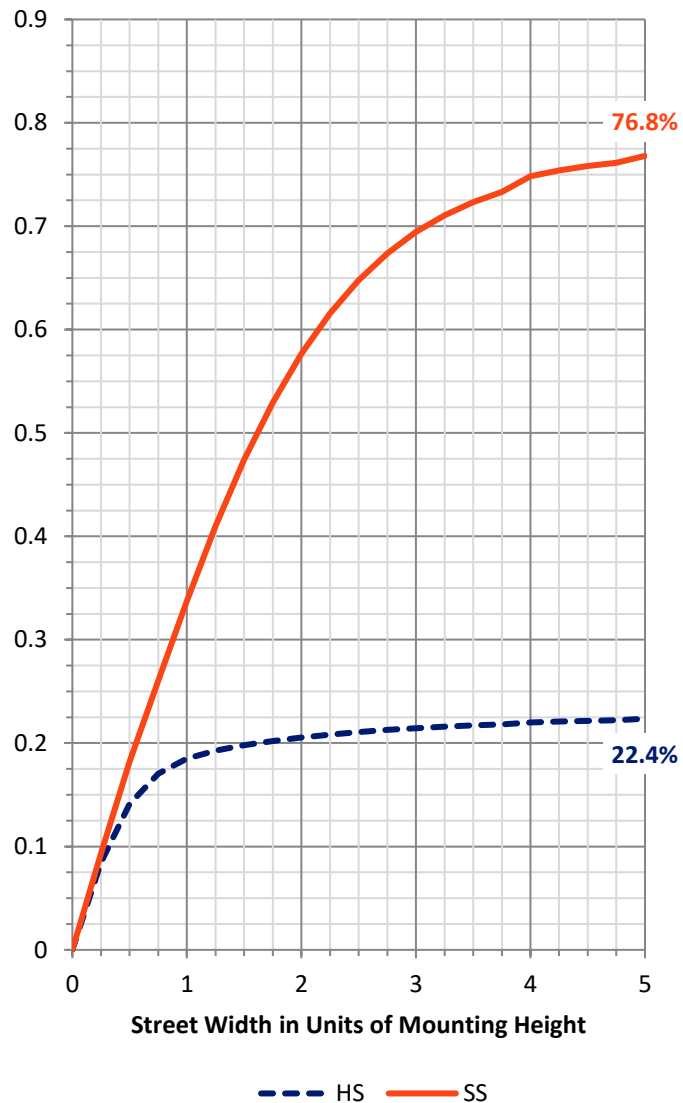
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	980.0	0.0	980.0
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	3304.0	0.0	3304.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	4284.0	0.0	4284.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.3	1.1
10°-20°	142.6	3.3
20°-30°	240.8	5.6
30°-40°	330.1	7.7
40°-50°	486.1	11.3
50°-60°	764.7	17.9
60°-70°	1100.7	25.7
70°-80°	1000.9	23.4
80°-90°	172.8	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°	4284.0	100.0
0°-180°	4284.0	100.0

**Coefficient of Utilization**

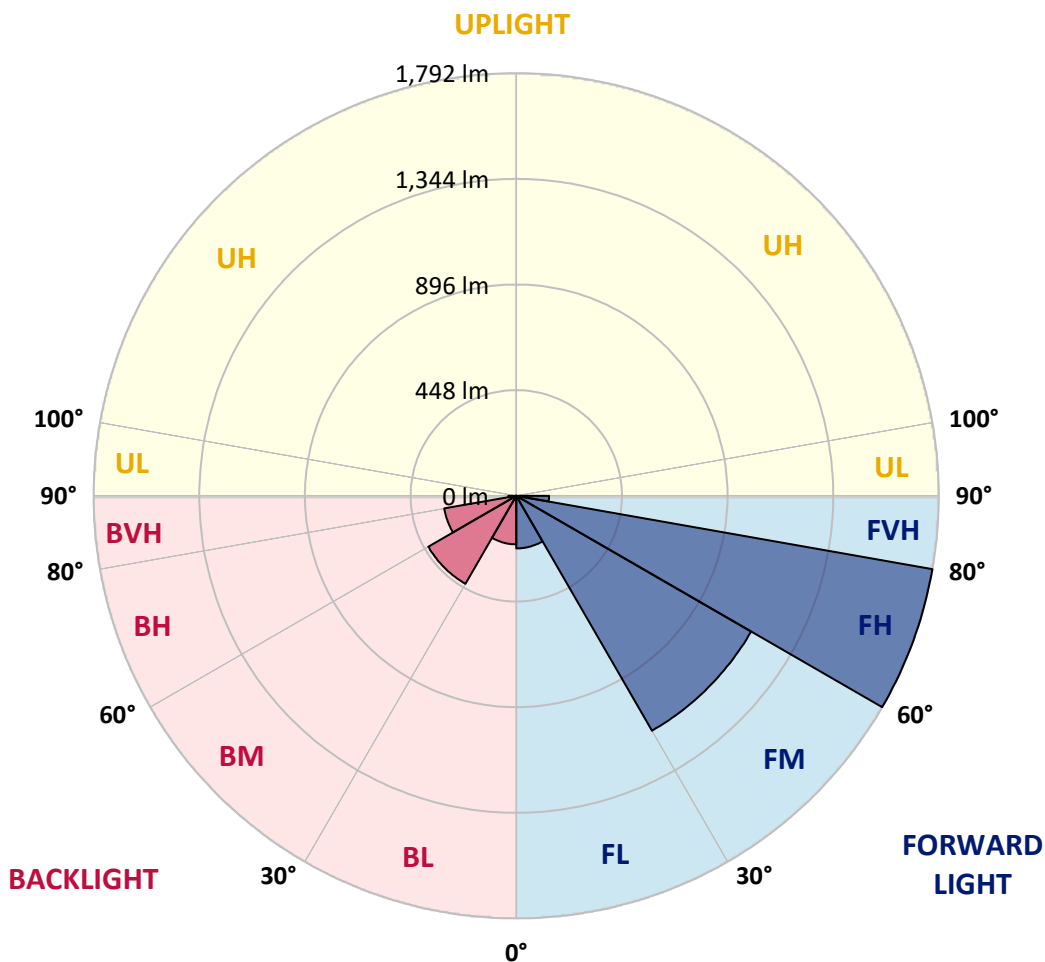


REPORT NUMBER: P595035  
 CATALOG NUMBER: IST-PA1B-727-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	223.0	5.2			
FM (30°-60°)	1150.2	26.8			
FH (60°-80°)	1791.8	41.8			G1/1800
FVH (80°-90°)	139.1	3.2			G2/225
BL (0°-30°)	205.7	4.8	B1/500		
BM (30°-60°)	430.7	10.1	B1/1000		
BH (60°-80°)	309.8	7.2	B1/500		G1/500
BVH (80°-90°)	33.7	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Medium





REPORT NUMBER: P595035  
 CATALOG NUMBER: IST-PA1B-727-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9
2.5°	477.4	477.4	478.5	476.4	476.4	471.1	471.1	470.1	468.0	466.9	464.8
5°	495.3	495.3	492.1	486.9	483.7	477.4	474.3	472.2	468.0	462.7	457.5
7.5°	514.2	512.1	510.0	501.6	495.3	483.7	478.5	475.3	466.9	459.6	456.5
10°	534.1	531.0	525.7	515.2	505.8	492.1	485.8	481.6	472.2	465.9	458.6
12.5°	545.6	545.6	539.3	526.8	514.2	497.4	494.2	489.0	479.5	471.1	463.8
15°	557.2	558.2	551.9	537.3	522.6	510.0	504.7	501.6	491.1	478.5	469.0
17.5°	568.7	567.7	561.4	544.6	528.9	517.3	514.2	510.0	499.5	487.9	478.5
20°	577.1	575.0	572.9	551.9	536.2	528.9	524.7	521.5	511.0	498.4	485.8
22.5°	579.2	581.3	579.2	554.0	541.4	533.1	532.0	528.9	520.5	508.9	496.3
25°	580.3	581.3	584.5	560.3	548.8	542.5	540.4	538.3	532.0	522.6	505.8
27.5°	585.5	586.6	586.6	564.5	558.2	554.0	551.9	551.9	548.8	537.3	520.5
30°	586.6	587.6	589.7	575.0	572.9	569.8	570.8	569.8	564.5	551.9	533.1
32.5°	593.9	595.0	600.2	581.3	583.4	586.6	587.6	586.6	576.1	565.6	549.8
35°	618.0	617.0	621.2	597.1	595.0	596.0	599.2	598.1	593.9	584.5	574.0
37.5°	695.7	695.7	684.2	633.8	618.0	615.9	618.0	623.3	624.3	615.9	607.6
40°	832.1	824.8	818.5	709.3	659.0	646.4	652.7	655.8	664.2	664.2	664.2
42.5°	972.7	973.8	971.7	826.9	732.4	700.9	702.0	709.3	727.2	730.3	739.8
45°	1097.6	1104.9	1120.7	963.3	840.5	770.2	762.9	770.2	795.4	816.4	840.5
47.5°	1195.2	1186.8	1221.4	1106.0	964.3	864.6	845.7	847.8	882.5	916.1	953.8
50°	1279.1	1281.2	1297.0	1251.8	1120.7	971.7	946.5	942.3	991.6	1027.3	1091.3
52.5°	1373.6	1367.3	1390.3	1379.9	1272.8	1102.8	1063.0	1050.4	1103.9	1154.2	1223.5
55°	1418.7	1425.0	1472.2	1498.4	1416.6	1220.4	1176.3	1180.5	1237.1	1290.7	1387.2
57.5°	1498.4	1504.7	1559.3	1613.9	1544.6	1345.2	1306.4	1306.4	1370.4	1430.2	1579.2
60°	1607.6	1608.6	1664.2	1758.7	1656.9	1465.9	1440.7	1439.7	1508.9	1578.2	1805.9
62.5°	1655.8	1668.4	1751.3	1874.1	1803.8	1613.9	1584.5	1592.9	1654.8	1735.6	2058.8
65°	1590.8	1618.0	1791.2	1951.7	1934.9	1768.1	1756.6	1768.1	1805.9	1893.0	2326.3
67.5°	1375.7	1412.4	1717.7	2004.2	2039.9	1946.5	1929.7	1927.6	1951.7	2049.3	2495.3
70°	1264.4	1286.5	1523.6	2024.1	2123.8	2127.0	2127.0	2113.3	2110.2	2181.5	2511.0
72.5°	1040.9	1064.0	1285.4	1912.9	2203.6	2368.3	2392.4	2342.1	2264.4	2249.7	2247.6
75°	741.9	758.7	949.6	1504.7	2101.8	2600.2	2648.5	2550.9	2334.7	2100.7	1639.0
76°	517.3	541.4	741.9	1285.4	1973.8	2604.4	2680.0	2566.6	2287.5	1972.7	1350.5
77.5°	262.3	270.7	429.2	863.6	1651.6	2484.8	2558.2	2431.3	2081.8	1593.9	857.3
80°	99.7	102.8	153.2	314.8	906.6	1929.7	1958.0	1787.0	1377.8	681.0	308.5
82.5°	52.5	54.6	86.0	155.3	372.5	1060.9	1197.3	996.9	540.4	204.6	90.2
85°	26.2	28.3	50.4	94.4	184.7	331.6	384.1	363.1	179.4	77.6	33.6
87.5°	10.5	12.6	25.2	42.0	74.5	65.1	72.4	93.4	57.7	36.7	11.5
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: P595035  
 CATALOG NUMBER: IST-PA1B-727-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9	466.9
2.5°	464.8	463.8	464.8	463.8	464.8	464.8	465.9	463.8	463.8	465.9	462.7
5°	457.5	456.5	457.5	459.6	460.7	462.7	466.9	465.9	468.0	470.1	471.1
7.5°	454.4	453.3	456.5	457.5	460.7	464.8	471.1	475.3	477.4	481.6	479.5
10°	457.5	457.5	461.7	464.8	470.1	475.3	480.6	484.8	490.0	493.2	492.1
12.5°	462.7	461.7	469.0	473.2	480.6	485.8	490.0	492.1	496.3	500.5	499.5
15°	468.0	469.0	479.5	487.9	496.3	498.4	499.5	497.4	499.5	501.6	501.6
17.5°	478.5	479.5	491.1	500.5	507.9	505.8	500.5	495.3	495.3	496.3	497.4
20°	486.9	489.0	502.6	511.0	515.2	506.8	498.4	492.1	489.0	490.0	489.0
22.5°	496.3	500.5	514.2	518.4	512.1	501.6	491.1	482.7	482.7	483.7	483.7
25°	507.9	510.0	519.4	517.3	505.8	490.0	481.6	478.5	477.4	478.5	479.5
27.5°	518.4	519.4	524.7	510.0	487.9	471.1	468.0	469.0	470.1	471.1	472.2
30°	532.0	534.1	528.9	499.5	465.9	447.0	447.0	453.3	455.4	458.6	457.5
32.5°	548.8	550.9	535.2	485.8	437.6	418.7	419.7	429.2	435.5	437.6	438.6
35°	577.1	572.9	539.3	466.9	407.1	384.1	385.1	396.6	405.0	408.2	406.1
37.5°	611.8	610.7	545.6	442.8	369.4	348.4	349.4	354.7	363.1	364.1	365.2
40°	669.5	661.1	556.1	411.3	331.6	311.6	309.5	312.7	311.6	313.7	314.8
42.5°	752.4	730.3	569.8	375.7	298.0	277.0	274.9	269.7	263.4	257.1	253.9
45°	849.9	815.3	586.6	338.9	263.4	244.5	239.2	232.9	220.4	206.7	202.5
47.5°	975.9	909.8	605.5	302.2	230.8	216.2	212.0	202.5	187.8	172.1	168.9
50°	1104.9	1021.0	624.3	271.8	204.6	196.2	192.0	182.6	163.7	149.0	145.9
52.5°	1255.0	1131.2	644.3	244.5	181.5	181.5	178.4	163.7	145.9	132.2	130.1
55°	1428.1	1244.5	675.8	218.3	164.7	168.9	164.7	150.1	133.3	123.8	122.8
57.5°	1634.8	1388.2	715.6	189.9	150.1	153.2	153.2	142.7	131.2	124.9	123.8
60°	1842.6	1534.1	740.8	168.9	138.5	141.7	148.0	142.7	135.4	132.2	131.2
62.5°	2042.0	1683.1	697.8	151.1	127.0	136.4	152.2	153.2	145.9	146.9	146.9
65°	2191.0	1796.4	564.5	135.4	119.6	139.6	164.7	165.8	153.2	150.1	149.0
67.5°	2242.4	1827.9	379.9	124.9	115.4	141.7	179.4	175.2	153.2	146.9	143.8
70°	2144.8	1712.5	246.6	115.4	109.1	139.6	191.0	180.5	152.2	142.7	138.5
72.5°	1798.5	1460.6	164.7	107.0	102.8	137.5	198.3	180.5	149.0	135.4	131.2
75°	1248.7	997.9	122.8	96.5	93.4	134.3	200.4	177.3	141.7	127.0	123.8
76°	1002.1	748.2	111.2	92.3	89.2	132.2	199.4	174.2	136.4	122.8	119.6
77.5°	632.7	430.2	93.4	85.0	82.9	128.0	195.2	166.8	129.1	115.4	112.3
80°	221.4	157.4	71.4	69.3	70.3	118.6	183.6	152.2	114.4	101.8	97.6
82.5°	88.1	72.4	53.5	53.5	55.6	101.8	165.8	134.3	99.7	83.9	77.6
85°	34.6	31.5	37.8	37.8	39.9	82.9	138.5	104.9	68.2	52.5	50.4
87.5°	10.5	14.7	16.8	17.8	18.9	42.0	78.7	46.2	30.4	22.0	17.8
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)