

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: P595114

Luminaire Tested: **IST-PA1C-727-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595114  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1C-727-U-T3  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5533 lumens  
Efficiency: N/A  
Efficacy: 114.6 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

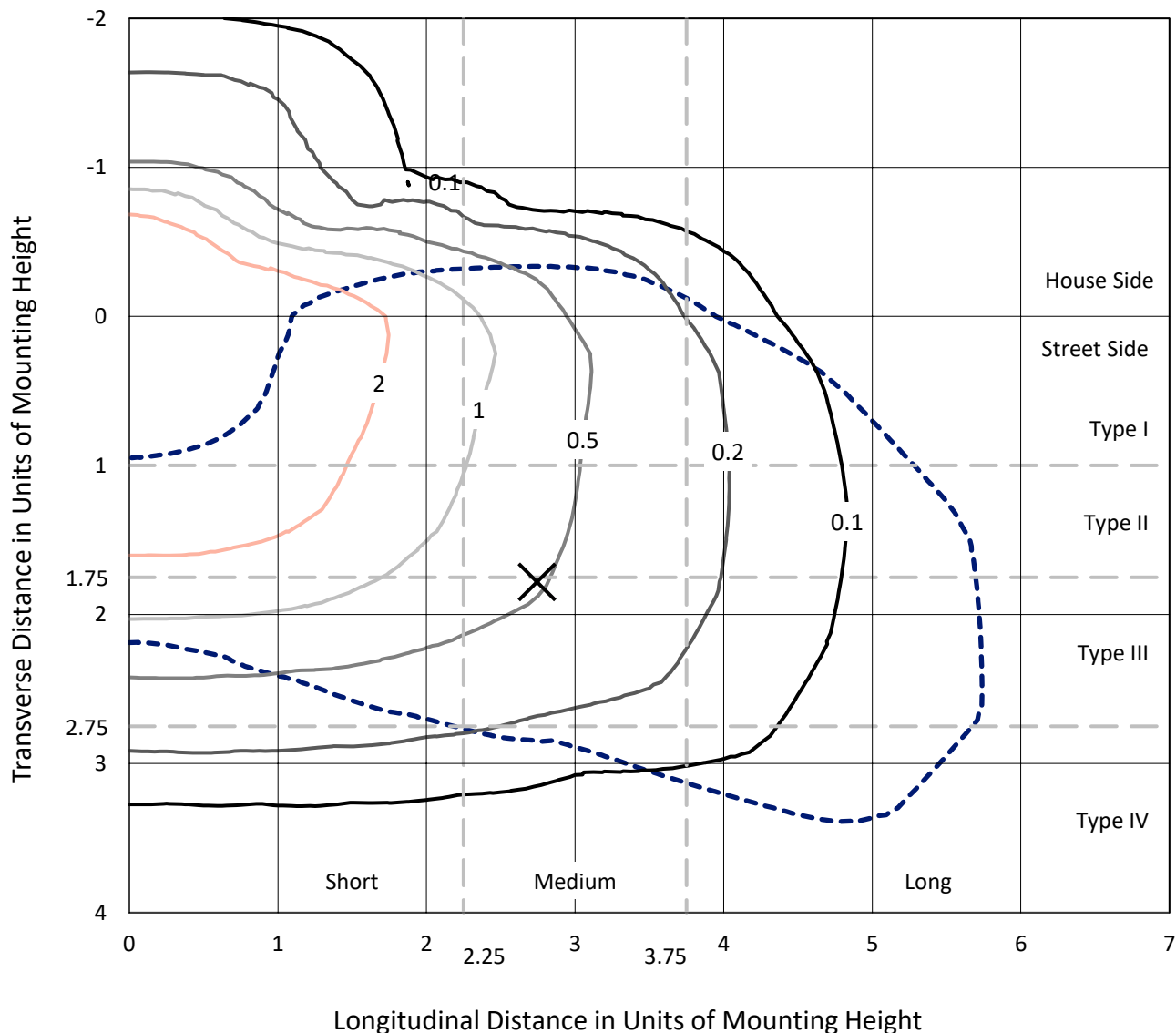
Input Watts (W): 48.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

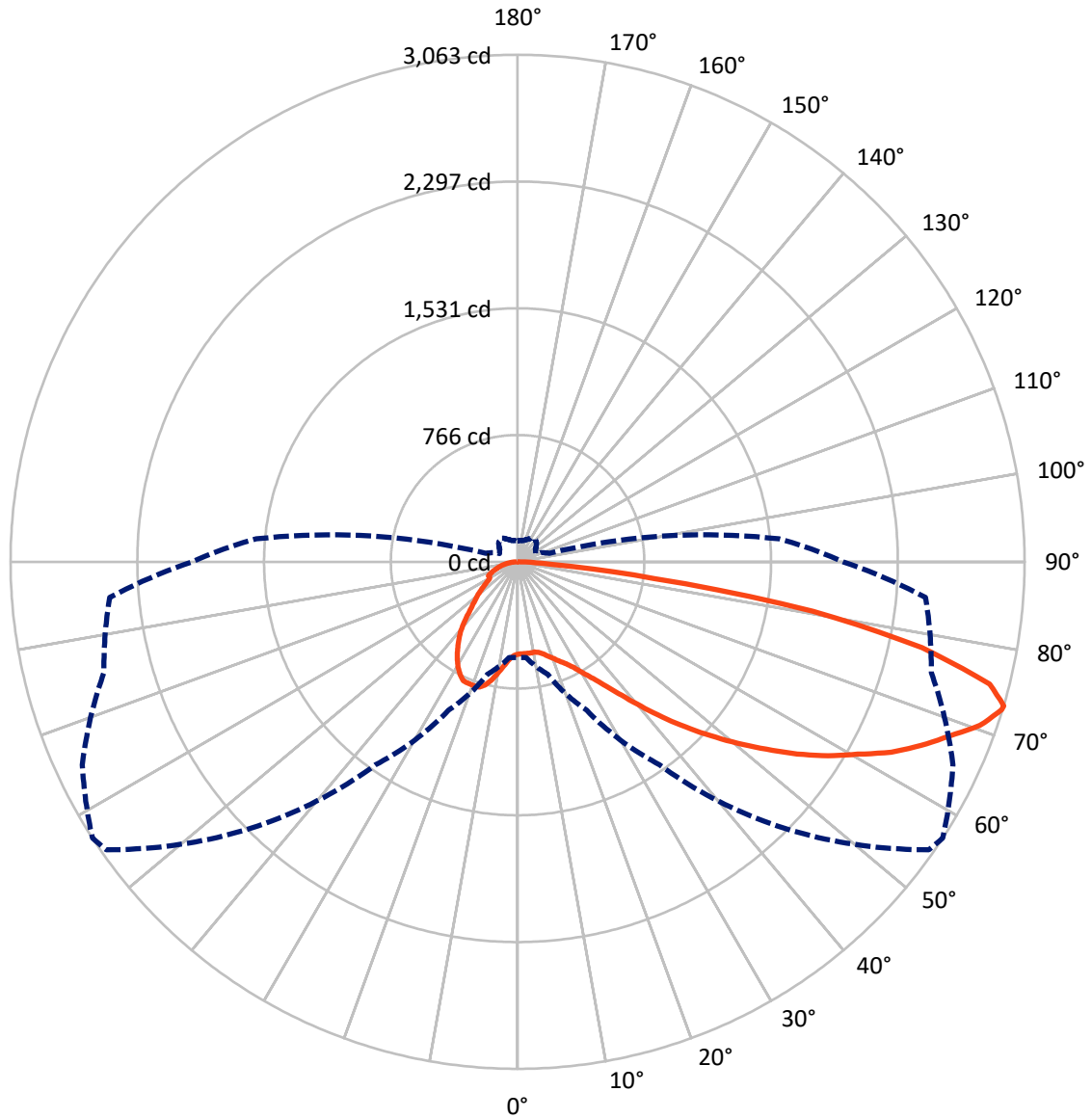
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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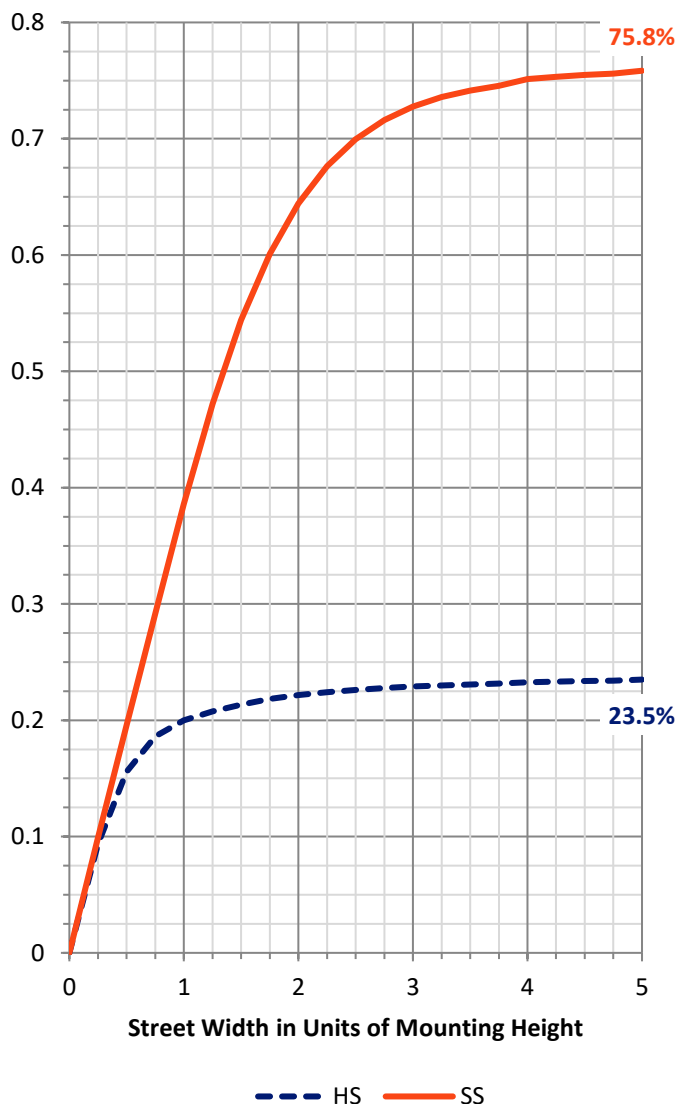
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1320.0	0.0	1320.0
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	4213.0	0.0	4213.0
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	5533.0	0.0	5533.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.6	1.0
10°-20°	183.0	3.3
20°-30°	337.9	6.1
30°-40°	521.8	9.4
40°-50°	785.4	14.2
50°-60°	1149.5	20.8
60°-70°	1357.5	24.5
70°-80°	971.9	17.6
80°-90°	170.3	3.1
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°	5533.0	100.0
0°-180°	5533.0	100.0

**Coefficient of Utilization**

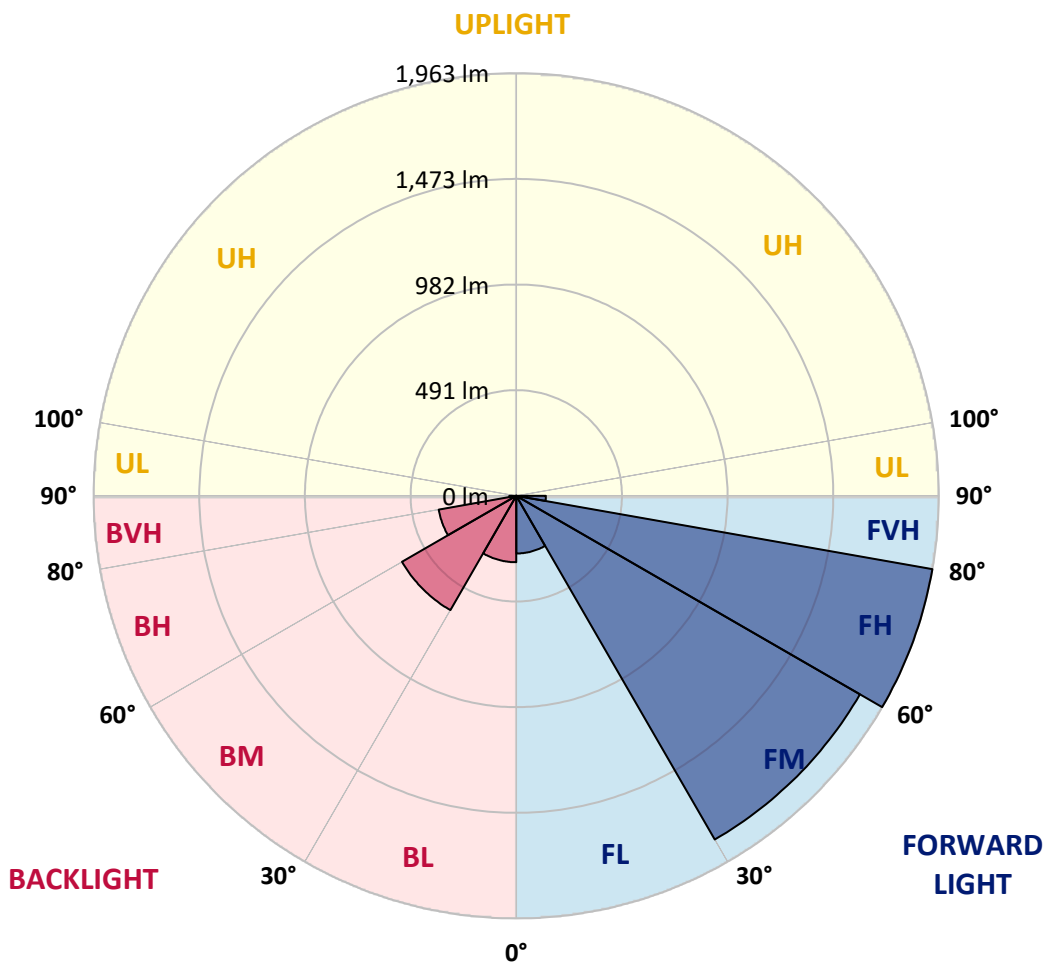


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	268.1	4.8			
FM (30°-60°)	1843.7	33.3			
FH (60°-80°)	1963.4	35.5			G2/5000
FVH (80°-90°)	137.8	2.5			G2/225
BL (0°-30°)	308.5	5.6	B1/500		
BM (30°-60°)	613.0	11.1	B1/1000		
BH (60°-80°)	366.0	6.6	B1/500		G1/500
BVH (80°-90°)	32.5	0.6			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5
2.5°	550.7	553.4	552.0	553.4	557.5	554.7	554.7	556.1	557.5	556.1	558.8
5°	527.6	529.0	531.7	537.1	546.6	549.3	556.1	556.1	558.8	561.5	565.6
7.5°	489.6	492.3	497.8	503.2	519.5	535.8	553.4	556.1	565.6	572.4	575.1
10°	482.9	485.6	486.9	495.1	511.3	527.6	549.3	554.7	572.4	583.2	595.4
12.5°	476.1	478.8	482.9	493.7	514.0	531.7	554.7	560.2	581.9	603.6	618.5
15°	481.5	482.9	486.9	497.8	518.1	542.5	572.4	576.4	600.9	628.0	651.0
17.5°	495.1	496.4	495.1	504.6	523.5	552.0	592.7	599.5	629.3	656.5	679.5
20°	526.3	527.6	522.2	522.2	535.8	564.2	614.4	623.9	660.5	690.4	713.4
22.5°	594.1	591.4	577.8	560.2	560.2	583.2	638.8	652.4	698.5	722.9	743.3
25°	690.4	690.4	668.7	636.1	614.4	611.7	667.3	682.2	736.5	766.3	778.5
27.5°	807.0	808.4	773.1	729.7	687.7	667.3	708.0	722.9	784.0	815.2	819.2
30°	910.1	911.5	876.2	835.5	784.0	739.2	762.3	778.5	849.1	873.5	859.9
32.5°	1013.2	1014.5	990.1	934.5	880.3	824.6	831.4	840.9	912.8	935.9	914.2
35°	1102.7	1106.8	1082.4	1040.3	983.3	933.2	920.9	922.3	987.4	1002.3	973.8
37.5°	1193.6	1193.6	1178.7	1139.3	1090.5	1034.9	1018.6	1022.7	1081.0	1095.9	1055.2
40°	1308.9	1314.3	1306.1	1257.3	1201.7	1155.6	1139.3	1144.7	1208.5	1200.4	1157.0
42.5°	1448.6	1460.8	1447.2	1394.3	1334.6	1283.1	1283.1	1283.1	1337.3	1338.7	1273.6
45°	1627.6	1627.6	1614.0	1567.9	1489.3	1437.7	1420.1	1424.1	1471.6	1477.0	1401.1
47.5°	1776.8	1790.4	1775.4	1741.5	1679.1	1630.3	1574.7	1567.9	1607.3	1607.3	1542.1
50°	1897.5	1921.9	1909.7	1924.6	1879.9	1855.5	1741.5	1722.5	1736.1	1749.7	1677.8
52.5°	1997.9	2016.9	2012.8	2056.2	2077.9	2091.5	1911.1	1881.2	1892.1	1890.7	1825.6
55°	2004.7	2011.4	2072.5	2170.1	2255.6	2319.3	2082.0	2049.4	2038.6	2033.1	1983.0
57.5°	1965.3	1969.4	2091.5	2206.8	2392.6	2465.8	2243.4	2210.8	2195.9	2176.9	2156.6
60°	1870.4	1890.7	2050.8	2228.5	2473.9	2579.7	2393.9	2360.0	2349.2	2308.5	2354.6
62.5°	1749.7	1759.2	1919.2	2183.7	2484.8	2628.6	2552.6	2532.3	2498.4	2440.0	2530.9
65°	1578.8	1577.4	1718.5	2052.1	2429.2	2653.0	2686.9	2676.0	2634.0	2533.6	2688.2
67.5°	1296.7	1327.8	1466.2	1818.8	2294.9	2677.4	2823.9	2810.3	2743.9	2617.7	2762.8
70°	988.8	1007.8	1165.1	1468.9	2027.7	2610.9	2958.2	2962.2	2841.5	2635.4	2730.3
72.5°	630.7	663.2	788.0	1070.1	1623.5	2364.1	3038.2	3057.2	2895.8	2610.9	2528.2
73°	577.8	580.5	702.6	990.1	1497.4	2275.9	3032.8	3062.6	2901.2	2586.5	2472.6
75°	344.5	359.4	432.7	657.8	1068.8	1828.3	2886.3	2946.0	2872.7	2478.0	2167.4
77.5°	161.4	172.3	212.9	347.2	581.9	1100.0	2426.5	2497.0	2545.8	2168.8	1652.0
80°	85.4	86.8	104.4	175.0	312.0	453.0	1691.3	1808.0	1877.2	1633.0	1110.8
82.5°	71.9	71.9	81.4	112.6	199.4	176.3	697.2	830.1	1017.2	804.3	436.7
85°	58.3	59.7	81.4	84.1	142.4	90.9	166.8	208.9	394.7	355.4	48.8
87.5°	19.0	21.7	46.1	59.7	76.0	35.3	42.0	46.1	46.1	67.8	16.3
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°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5
2.5°	560.2	560.2	561.5	562.9	565.6	565.6	568.3	569.7	572.4	573.7	569.7
5°	565.6	568.3	571.0	579.2	588.6	596.8	604.9	611.7	618.5	622.6	621.2
7.5°	580.5	584.6	595.4	610.3	629.3	641.5	653.8	666.0	671.4	674.1	674.1
10°	600.9	609.0	629.3	653.8	675.5	694.4	703.9	712.1	714.8	717.5	714.8
12.5°	629.3	640.2	671.4	702.6	727.0	736.5	735.1	724.3	709.4	706.6	703.9
15°	666.0	679.5	714.8	751.4	770.4	758.2	727.0	716.1	713.4	721.6	718.9
17.5°	697.2	713.4	756.8	794.8	790.7	748.7	739.2	744.6	741.9	743.3	743.3
20°	727.0	750.1	796.2	821.9	786.7	759.5	751.4	744.6	736.5	739.2	736.5
22.5°	765.0	781.2	834.1	835.5	781.2	759.5	741.9	728.3	725.6	727.0	728.3
25°	794.8	820.6	866.7	826.0	781.2	737.8	713.4	710.7	712.1	720.2	717.5
27.5°	835.5	861.3	892.5	820.6	748.7	702.6	693.1	691.7	682.2	684.9	684.9
30°	873.5	904.7	906.0	820.6	708.0	672.7	659.2	634.8	614.4	618.5	617.1
32.5°	925.0	952.1	908.7	788.0	661.9	633.4	596.8	558.8	549.3	554.7	556.1
35°	984.7	1006.4	911.5	733.8	615.8	577.8	511.3	489.6	488.3	492.3	496.4
37.5°	1063.4	1075.6	931.8	671.4	571.0	491.0	439.5	434.0	421.8	413.7	415.0
40°	1159.7	1144.7	971.1	615.8	518.1	412.3	390.6	375.7	352.6	329.6	333.7
42.5°	1266.8	1224.8	983.3	571.0	446.2	363.5	343.2	320.1	291.6	267.2	265.8
45°	1382.1	1314.3	972.5	535.8	374.3	326.9	305.2	278.0	244.1	223.8	223.8
47.5°	1519.1	1399.7	938.6	507.3	324.2	294.3	267.2	240.1	217.0	198.0	198.0
50°	1669.6	1498.7	914.2	457.1	288.9	263.1	236.0	214.3	196.7	181.7	181.7
52.5°	1828.3	1592.3	893.8	383.8	257.7	234.6	215.7	198.0	183.1	164.1	161.4
55°	1989.7	1681.9	903.3	313.3	229.2	214.3	202.1	184.5	179.0	175.0	172.3
57.5°	2157.9	1779.5	926.4	256.3	204.8	203.4	198.0	210.2	222.4	214.3	210.2
60°	2289.5	1855.5	929.1	215.7	189.9	214.3	241.4	245.5	212.9	194.0	192.6
62.5°	2393.9	1927.3	865.3	187.2	194.0	252.3	257.7	217.0	184.5	176.3	176.3
65°	2448.2	1953.1	695.8	170.9	202.1	241.4	233.3	195.3	172.3	170.9	170.9
67.5°	2421.1	1932.8	486.9	153.3	179.0	208.9	208.9	179.0	158.7	165.5	162.8
70°	2290.8	1832.4	321.5	138.3	157.3	188.5	194.0	166.8	147.8	151.9	147.8
72.5°	2019.6	1653.4	211.6	122.1	135.6	166.8	180.4	153.3	135.6	134.3	130.2
73°	1966.7	1585.6	199.4	119.4	131.6	161.4	176.3	150.6	132.9	128.9	126.1
75°	1668.3	1322.4	150.6	107.2	116.6	145.1	164.1	141.1	122.1	116.6	113.9
77.5°	1215.3	916.9	112.6	90.9	97.7	126.1	145.1	128.9	108.5	101.7	100.4
80°	758.2	499.1	84.1	73.2	77.3	105.8	127.5	115.3	93.6	85.4	84.1
82.5°	297.0	162.8	58.3	54.3	57.0	80.0	107.2	100.4	78.7	71.9	67.8
85°	48.8	55.6	38.0	36.6	36.6	57.0	81.4	77.3	52.9	46.1	40.7
87.5°	13.6	25.8	14.9	13.6	13.6	24.4	44.8	35.3	21.7	17.6	16.3
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)