

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: P595166

Luminaire Tested: **IST-PA1C-827-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595166  
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-PA1C-827-U-T2U  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4916 lumens  
Efficiency: N/A  
Efficacy: 101.8 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

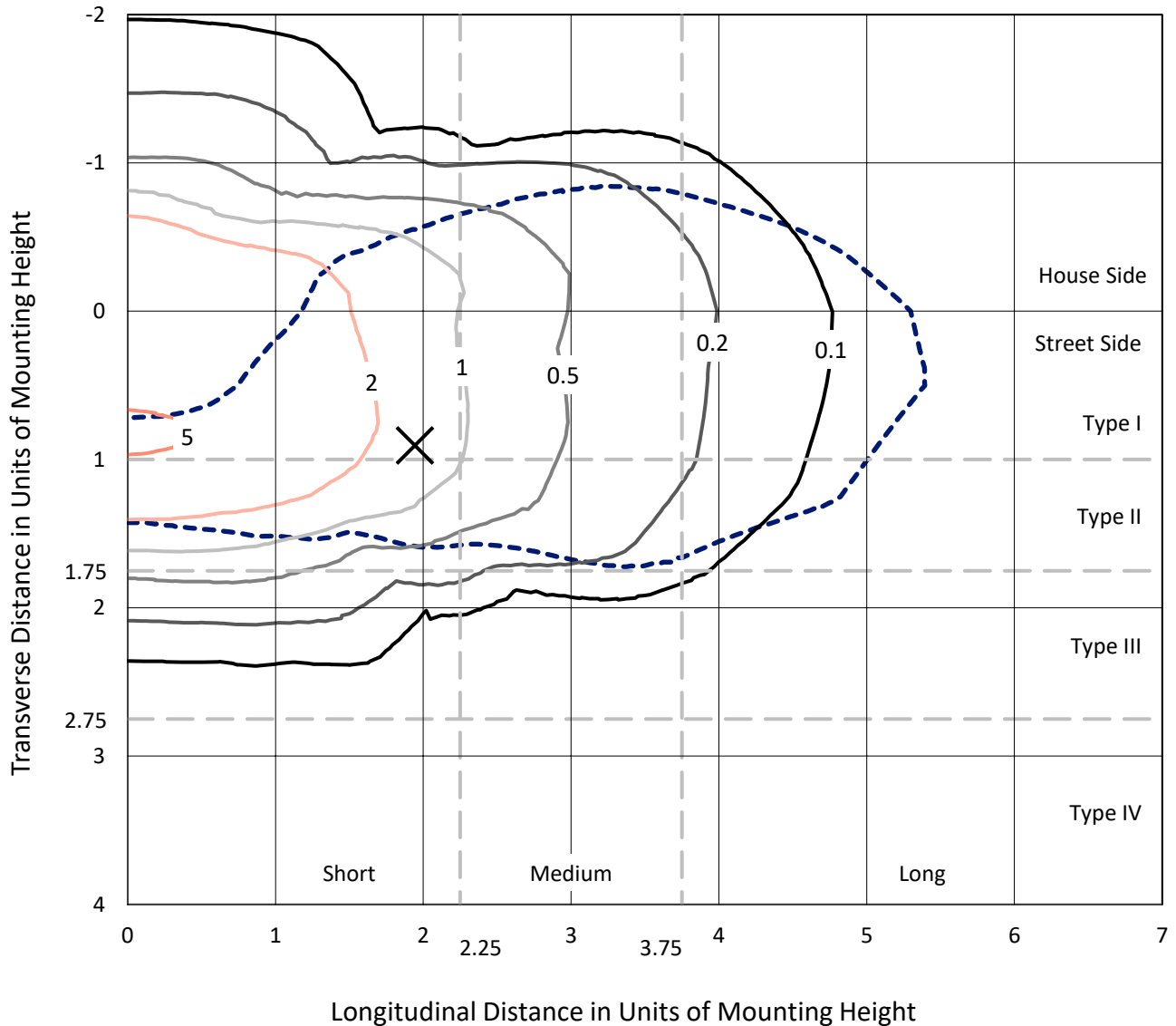
Input Watts (W): 48.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

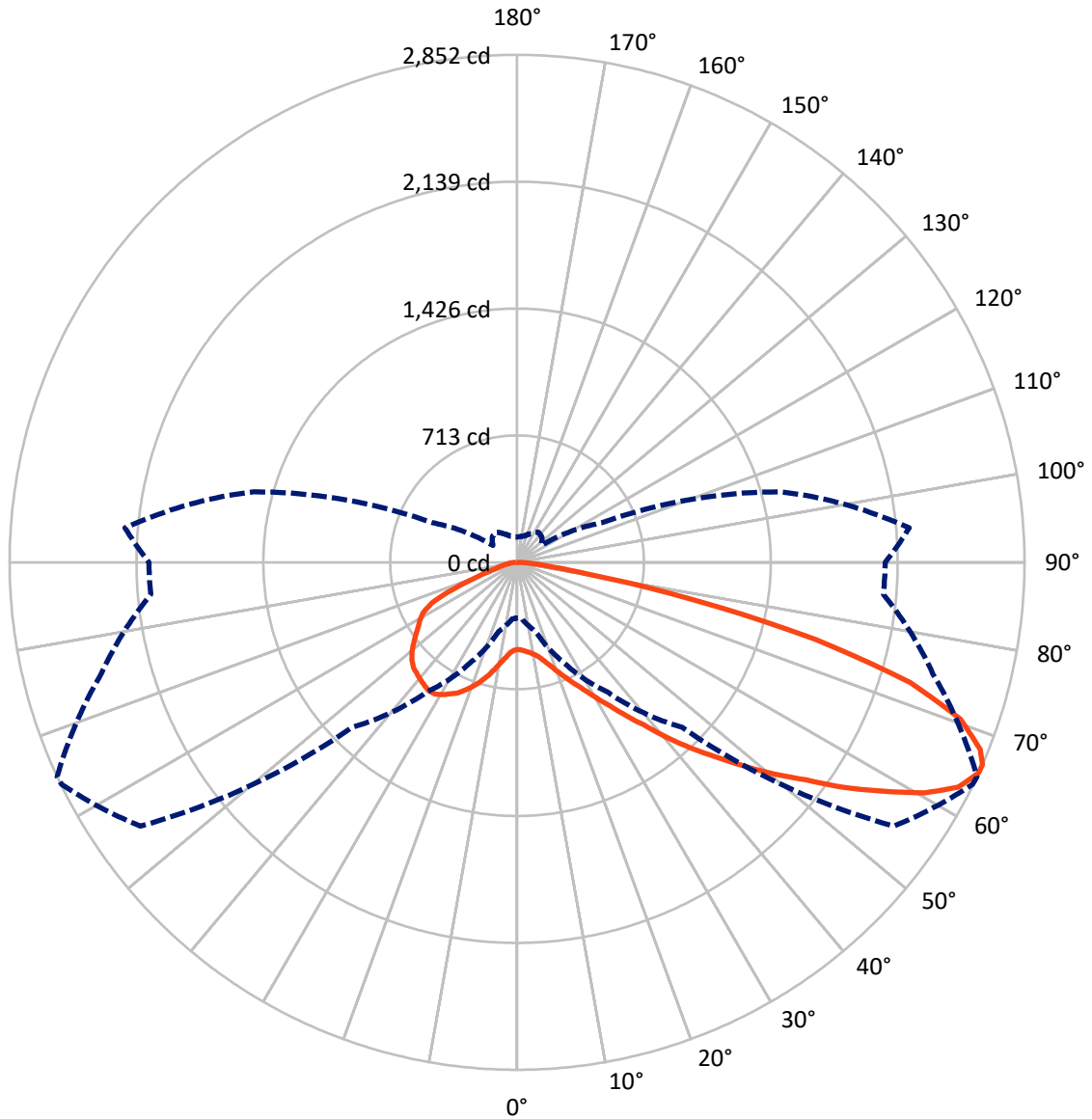
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.4 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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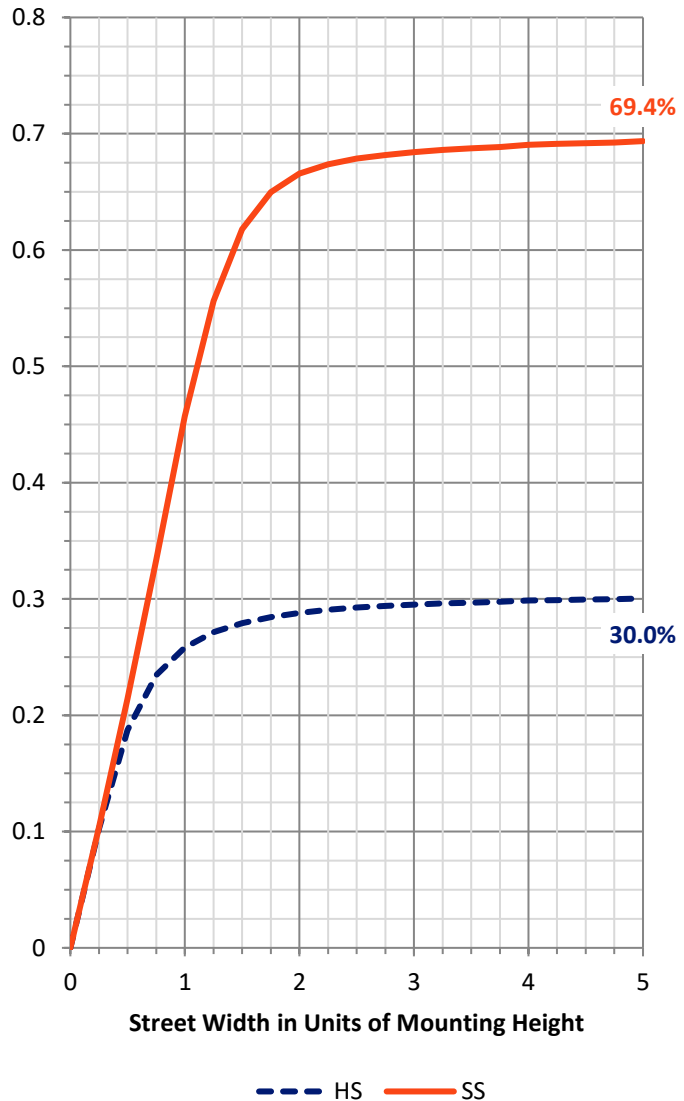
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1492.7	0.0	1492.7
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	3423.3	0.0	3423.3
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	4916.0	0.0	4916.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.0	1.0
10°-20°	174.2	3.5
20°-30°	341.2	6.9
30°-40°	557.6	11.3
40°-50°	885.0	18.0
50°-60°	1138.2	23.2
60°-70°	1026.5	20.9
70°-80°	636.6	13.0
80°-90°	106.7	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°	4916.0	100.0
0°-180°	4916.0	100.0

**Coefficient of Utilization**



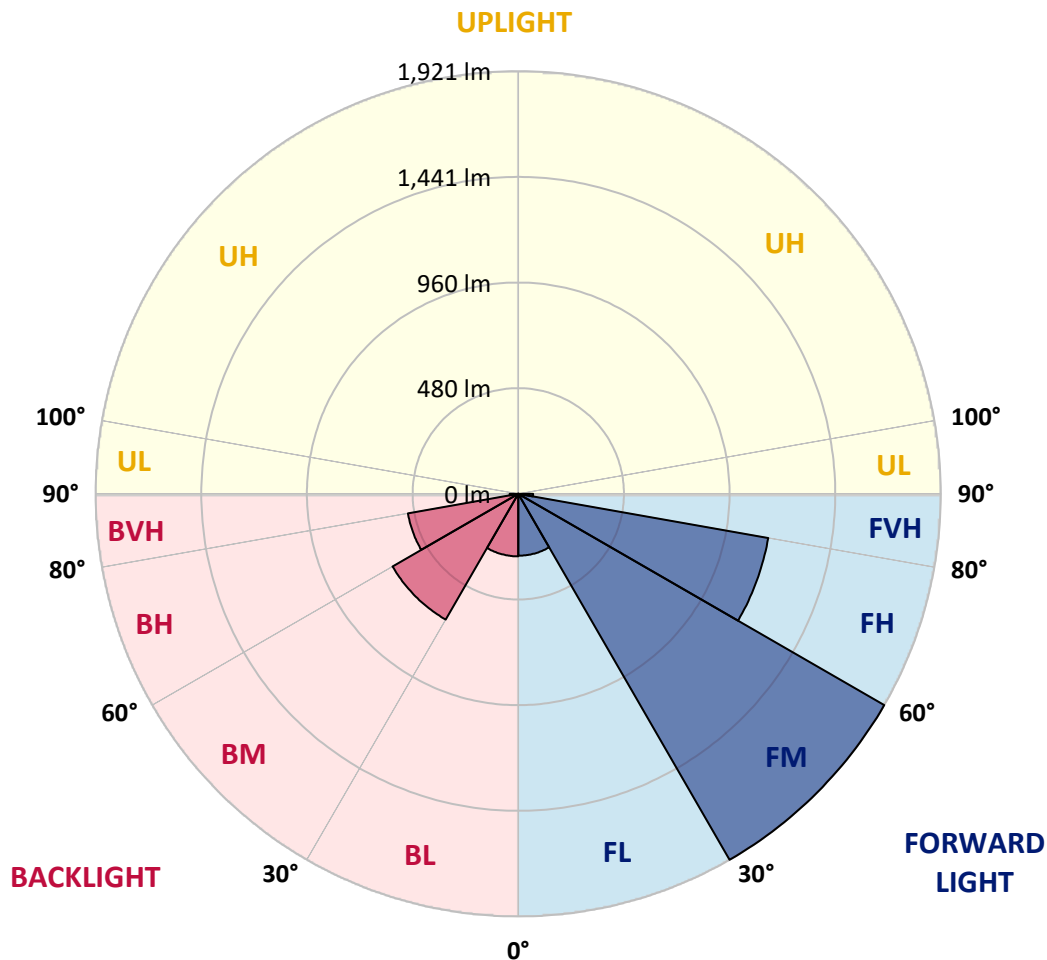
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	281.1	5.7			
FM (30°-60°)	1920.9	39.1			
FH (60°-80°)	1153.8	23.5			G1/1800
FVH (80°-90°)	67.5	1.4			G1/100
BL (0°-30°)	284.3	5.8	B1/500		
BM (30°-60°)	659.9	13.4	B1/1000		
BH (60°-80°)	509.3	10.4	B2/1000		G2/1000
BVH (80°-90°)	39.2	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°	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0
2.5°	491.2	492.4	493.6	491.2	493.6	494.8	492.4	492.4	493.6	491.2	491.2
5°	487.6	488.8	491.2	492.4	497.2	499.5	500.7	500.7	501.9	500.7	501.9
7.5°	478.1	478.1	482.9	485.2	492.4	500.7	505.5	512.7	512.7	513.9	517.4
10°	487.6	487.6	491.2	494.8	500.7	507.9	515.0	523.4	525.8	534.1	538.9
12.5°	501.9	504.3	509.1	513.9	521.0	529.4	535.3	543.7	544.9	553.2	562.7
15°	525.8	528.2	530.5	536.5	546.0	556.8	567.5	573.5	575.8	580.6	587.8
17.5°	561.5	563.9	565.1	568.7	575.8	590.2	605.7	610.4	612.8	612.8	618.8
20°	622.3	621.2	618.8	611.6	611.6	624.7	646.2	654.5	656.9	652.2	648.6
22.5°	692.7	691.5	682.0	673.6	667.7	670.0	691.5	705.8	704.6	695.1	680.8
25°	784.5	786.9	771.4	749.9	732.0	727.3	740.4	754.7	757.1	739.2	715.3
27.5°	894.2	890.6	882.3	847.7	813.1	791.6	798.8	814.3	815.5	796.4	758.3
30°	1022.9	1017.0	995.5	959.7	906.1	876.3	870.3	883.4	887.0	854.8	800.0
32.5°	1166.0	1160.0	1132.6	1077.8	1019.4	969.3	950.2	968.1	965.7	928.8	852.4
35°	1338.9	1337.7	1287.6	1219.7	1145.7	1079.0	1052.7	1052.7	1059.9	1005.1	919.2
37.5°	1570.2	1579.7	1505.8	1399.7	1296.0	1206.5	1162.4	1160.0	1161.2	1101.6	994.3
40°	1778.8	1775.2	1732.3	1633.4	1481.9	1367.5	1301.9	1287.6	1291.2	1214.9	1092.1
42.5°	1899.2	1902.8	1892.1	1849.2	1716.8	1572.6	1460.5	1422.3	1423.5	1328.1	1185.1
45°	1974.3	1977.9	1976.7	1998.2	1945.7	1809.8	1650.1	1561.8	1557.1	1456.9	1294.8
47.5°	2017.3	2019.6	2035.1	2079.3	2122.2	2091.2	1859.9	1716.8	1707.3	1577.3	1404.5
50°	1969.6	1970.8	2032.8	2137.7	2242.6	2336.8	2074.5	1870.6	1868.2	1710.9	1511.8
52.5°	1719.2	1740.7	1877.8	2097.1	2332.0	2510.8	2322.5	2051.8	2031.6	1837.2	1619.1
55°	1403.3	1412.8	1570.2	1849.2	2315.3	2618.1	2509.7	2247.4	2233.1	1977.9	1724.0
57.5°	1095.7	1105.2	1292.4	1524.9	2060.2	2612.2	2642.0	2458.4	2426.2	2100.7	1828.9
60°	707.0	736.8	953.8	1239.9	1667.9	2431.0	2708.8	2661.1	2631.3	2222.3	1918.3
62.5°	480.5	485.2	621.2	919.2	1248.3	1975.5	2704.0	2786.3	2781.5	2343.9	2007.7
65°	312.4	319.5	401.8	622.3	893.0	1311.5	2584.8	2847.1	2851.8	2419.0	2066.1
66°	264.7	269.4	332.6	523.4	782.1	1039.6	2479.8	2842.3	2851.8	2453.6	2084.0
67.5°	230.1	233.7	265.9	386.3	639.0	747.5	2206.8	2779.1	2806.5	2485.8	2106.7
70°	197.9	202.7	232.5	263.5	456.6	436.4	1397.3	2617.0	2644.4	2501.3	2121.0
72.5°	163.3	166.9	196.7	238.4	331.4	293.3	616.4	2240.2	2309.4	2444.1	2098.3
75°	128.8	131.1	158.6	199.1	253.9	228.9	268.3	1642.9	1729.9	2154.4	2010.1
77.5°	100.1	101.3	122.8	155.0	232.5	177.6	165.7	800.0	1012.2	1664.4	1770.5
80°	69.1	71.5	90.6	116.8	170.5	140.7	110.9	312.4	397.0	1105.2	1342.5
82.5°	45.3	46.5	62.0	88.2	113.3	134.7	72.7	151.4	166.9	509.1	581.8
85°	31.0	31.0	44.1	54.8	77.5	89.4	47.7	79.9	87.0	193.1	70.3
87.5°	15.5	15.5	21.5	28.6	37.0	34.6	28.6	28.6	28.6	63.2	20.3
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°	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0
2.5°	492.4	492.4	493.6	494.8	496.0	496.0	497.2	497.2	496.0	497.2	498.4
5°	503.1	504.3	506.7	510.3	516.2	522.2	528.2	531.7	535.3	536.5	534.1
7.5°	519.8	522.2	530.5	540.1	549.6	563.9	572.3	577.0	579.4	581.8	579.4
10°	541.3	546.0	558.0	574.7	591.3	609.2	618.8	625.9	627.1	629.5	627.1
12.5°	566.3	574.7	592.5	616.4	636.7	654.5	661.7	656.9	646.2	641.4	640.2
15°	596.1	604.5	629.5	659.3	683.2	691.5	680.8	665.3	653.3	652.2	651.0
17.5°	622.3	634.3	668.8	699.8	722.5	714.1	685.5	676.0	672.4	677.2	676.0
20°	655.7	665.3	699.8	738.0	749.9	717.7	697.5	691.5	687.9	687.9	685.5
22.5°	683.2	690.3	732.0	773.8	766.6	720.1	705.8	693.9	682.0	680.8	677.2
25°	715.3	717.7	761.8	807.1	769.0	722.5	697.5	677.2	665.3	661.7	662.9
27.5°	745.1	751.1	789.3	829.8	763.0	709.4	668.8	642.6	624.7	623.5	623.5
30°	783.3	783.3	817.9	854.8	749.9	676.0	622.3	584.2	569.9	568.7	566.3
32.5°	826.2	819.1	852.4	872.7	721.3	630.7	559.2	516.2	493.6	488.8	485.2
35°	885.8	870.3	894.2	876.3	692.7	566.3	479.3	430.4	413.7	406.6	406.6
37.5°	955.0	932.3	957.4	865.6	648.6	491.2	395.8	358.9	341.0	330.2	333.8
40°	1036.1	1007.4	1021.7	853.6	600.9	407.7	326.7	304.0	282.6	268.3	268.3
42.5°	1131.4	1083.7	1094.5	841.7	532.9	335.0	282.6	267.1	250.4	236.1	239.6
45°	1223.2	1176.7	1166.0	829.8	461.4	286.1	264.7	253.9	238.4	221.8	221.8
47.5°	1329.3	1269.7	1229.2	808.3	391.1	270.6	269.4	253.9	224.1	200.3	197.9
50°	1429.5	1374.6	1286.4	776.1	351.7	283.8	268.3	231.3	202.7	187.2	186.0
52.5°	1535.6	1478.4	1332.9	736.8	331.4	277.8	246.8	212.2	190.8	175.3	171.7
55°	1640.5	1610.7	1374.6	698.6	299.3	258.7	228.9	200.3	177.6	163.3	161.0
57.5°	1759.7	1747.8	1410.4	660.5	249.2	234.9	215.8	191.9	170.5	159.8	158.6
60°	1863.5	1905.2	1453.3	631.9	212.2	217.0	209.8	190.8	175.3	163.3	163.3
62.5°	1973.1	2056.6	1491.5	594.9	184.8	206.3	211.0	189.6	169.3	158.6	158.6
65°	2068.5	2211.6	1530.8	527.0	165.7	197.9	207.4	176.5	152.6	144.3	141.9
66°	2109.1	2255.7	1542.8	485.2	158.6	191.9	201.5	169.3	145.5	138.3	137.1
67.5°	2156.8	2324.9	1557.1	395.8	147.8	178.8	188.4	158.6	133.5	128.8	126.4
70°	2223.5	2339.2	1548.7	258.7	128.8	153.8	168.1	141.9	119.2	115.6	112.1
72.5°	2230.7	2241.4	1465.3	163.3	112.1	132.3	147.8	127.6	104.9	101.3	99.0
75°	2112.6	1986.3	1239.9	116.8	99.0	116.8	130.0	110.9	87.0	82.3	79.9
77.5°	1803.9	1576.1	891.8	87.0	85.8	100.1	108.5	96.6	72.7	69.1	68.0
80°	1266.2	1069.4	447.1	65.6	68.0	83.5	90.6	81.1	60.8	56.0	53.7
82.5°	512.7	454.2	153.8	48.9	51.3	63.2	77.5	66.8	46.5	40.5	35.8
85°	58.4	99.0	66.8	33.4	34.6	42.9	52.5	40.5	27.4	22.7	19.1
87.5°	11.9	21.5	23.8	13.1	11.9	16.7	23.8	14.3	9.5	3.6	4.8
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)