

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: P400560

Luminaire Tested: **TT-D2-830-U-T4-PM**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: TT-D2-830-U-T4-PM  
Description: TOPTIER LED SITE LUMINAIRE  
3000K, 80 CRI LEDS AND DRIVE LANE DISTRIBUTION  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

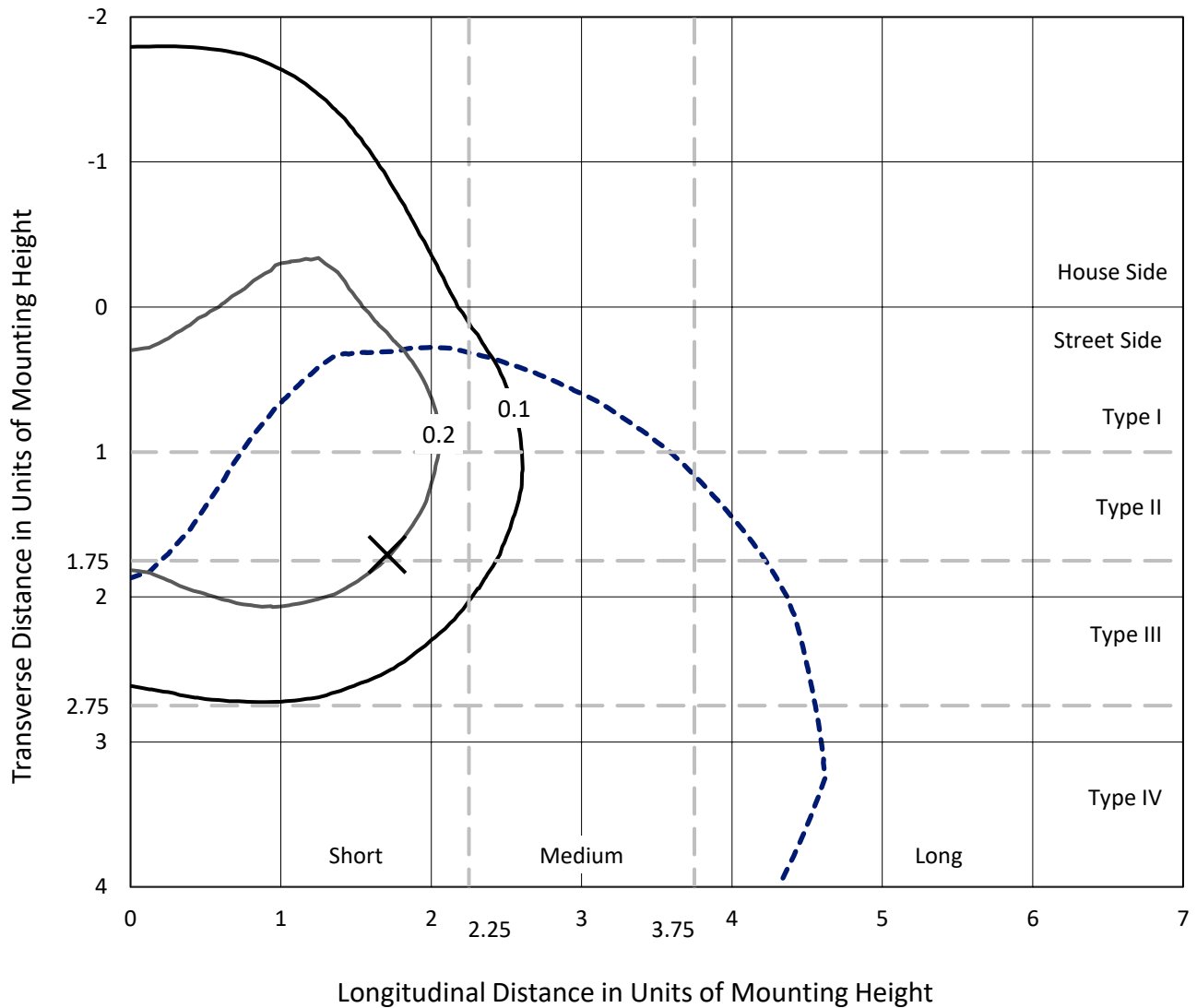
Lumens per Lamp: N/A  
Luminaire Lumens: 3985 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 40.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

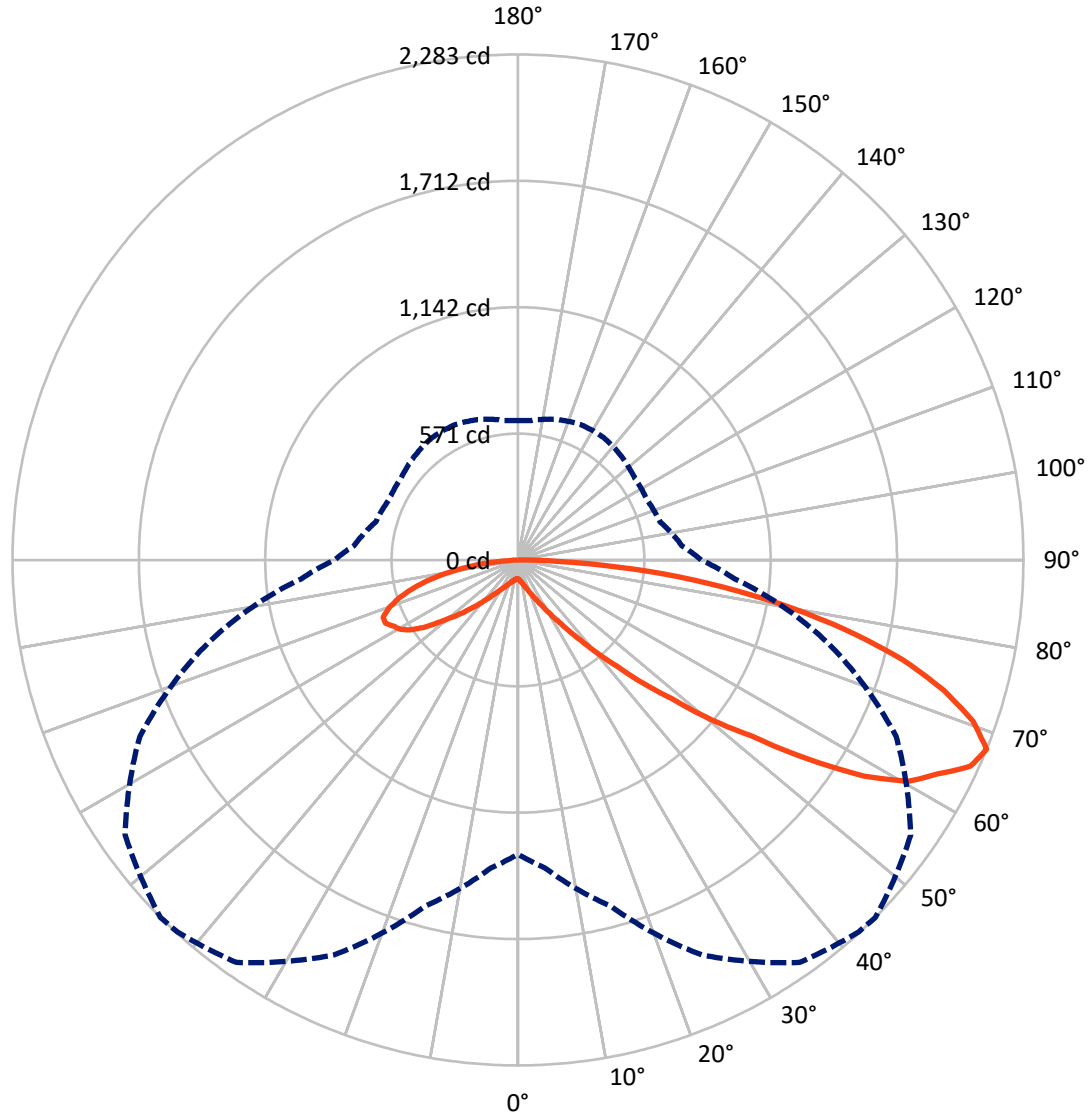
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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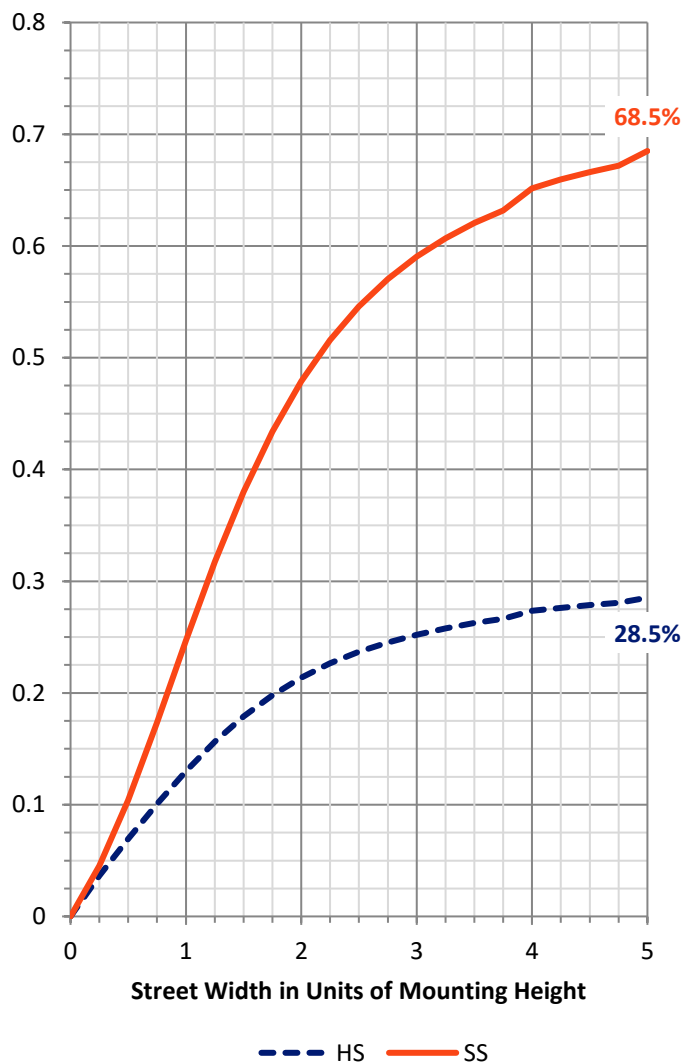
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1161.2	0.0	1161.2
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	2823.8	0.0	2823.8
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	3985.0	0.0	3985.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.9	0.2
10°-20°	33.1	0.8
20°-30°	78.2	2.0
30°-40°	176.9	4.4
40°-50°	394.4	9.9
50°-60°	793.0	19.9
60°-70°	1164.6	29.2
70°-80°	1024.1	25.7
80°-90°	311.8	7.8
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°	3985.0	100.0
0°-180°	3985.0	100.0

**Coefficient of Utilization**



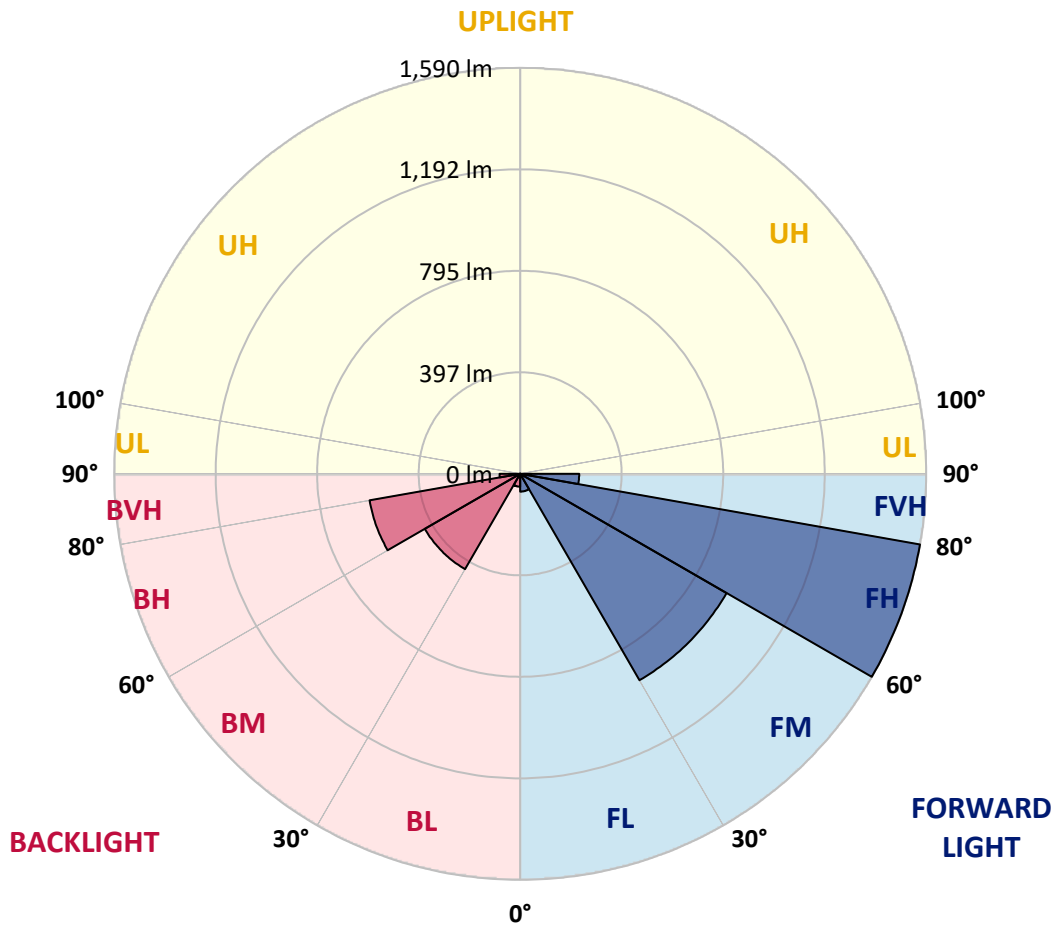
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	69.6	1.7			
FM (30°-60°)	933.2	23.4			
FH (60°-80°)	1589.9	39.9			G1/1800
FVH (80°-90°)	231.0	5.8			G3/500
BL (0°-30°)	50.5	1.3	B0/110		
BM (30°-60°)	431.1	10.8	B1/1000		
BH (60°-80°)	598.8	15.0	B2/1000		G2/1000
BVH (80°-90°)	80.8	2.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	42.5°	45°	55°	65°	75°	85°
0°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
2.5°	90.2	89.4	89.4	89.4	88.7	88.7	88.7	88.7	87.9	87.9	87.9
5°	95.4	94.6	95.4	93.9	93.1	93.1	92.4	92.4	91.7	90.9	90.2
7.5°	102.8	102.1	102.1	100.6	99.9	99.1	99.1	97.6	96.9	95.4	93.9
10°	111.0	111.0	110.3	109.5	108.0	106.6	106.6	104.3	103.6	101.3	99.1
12.5°	120.7	120.7	120.7	119.2	117.7	117.0	115.5	114.0	111.8	108.0	105.8
15°	132.6	132.6	132.6	131.1	129.7	128.2	127.4	124.4	120.7	117.0	112.5
17.5°	147.5	146.1	146.1	144.6	143.1	142.3	140.8	137.9	132.6	128.2	122.2
20°	163.9	163.2	162.4	162.4	161.0	159.5	158.7	154.2	148.3	140.1	132.6
22.5°	182.6	181.8	181.8	183.3	182.6	180.3	180.3	173.6	165.4	155.7	144.6
25°	205.7	204.9	206.4	209.4	209.4	207.9	205.7	199.0	187.0	173.6	160.2
27.5°	231.0	230.3	233.2	238.5	239.9	237.7	236.2	228.8	215.4	197.5	178.1
30°	261.6	262.3	270.5	276.5	280.2	278.7	277.9	269.7	248.1	227.3	201.9
32.5°	298.8	296.6	307.0	316.7	323.4	327.1	324.9	315.2	296.6	263.8	231.7
35°	338.3	339.0	351.7	365.9	381.5	383.0	387.5	377.8	352.5	313.7	269.0
37.5°	389.7	383.8	400.1	427.0	445.6	462.0	459.0	453.1	423.2	371.8	310.7
40°	435.9	434.4	457.5	494.8	529.1	552.9	555.9	548.4	508.9	435.9	355.4
42.5°	488.8	493.3	525.3	576.8	628.9	663.2	655.0	651.3	605.1	511.9	416.5
45°	542.5	557.4	598.4	672.9	734.0	783.2	797.3	784.7	728.0	631.9	494.0
47.5°	607.3	627.4	678.1	778.7	878.5	935.9	938.9	976.9	891.2	747.4	574.5
50°	693.0	701.9	772.7	895.7	1032.8	1113.3	1136.4	1137.1	1051.4	863.6	665.4
52.5°	777.2	783.9	877.1	1035.8	1222.1	1313.7	1318.9	1348.0	1231.0	1051.4	795.8
55°	878.5	875.6	1003.7	1194.5	1414.3	1547.7	1586.4	1625.9	1476.9	1199.7	870.3
57.5°	976.9	972.4	1126.7	1377.1	1677.4	1810.0	1842.0	1813.7	1592.4	1261.6	906.9
60°	1067.8	1083.5	1271.2	1579.0	1880.8	2007.5	2029.1	1952.3	1666.9	1309.2	930.0
62.5°	1162.4	1193.7	1421.0	1747.4	2036.5	2127.4	2128.9	2038.8	1791.4	1401.6	1005.2
65°	1251.1	1301.0	1537.3	1891.2	2145.3	2236.2	2246.7	2165.4	1913.6	1482.1	1017.9
67.5°	1329.4	1395.7	1617.7	1968.7	2219.1	2277.9	2283.2	2166.2	1884.5	1449.3	982.9
70°	1392.7	1446.4	1667.7	1970.2	2167.7	2184.1	2180.3	2055.9	1804.0	1384.5	924.0
72.5°	1417.3	1461.3	1643.8	1877.8	2016.4	2012.7	2009.7	1894.9	1671.4	1276.5	839.0
75°	1382.3	1394.9	1513.4	1680.3	1768.3	1789.1	1792.1	1688.5	1466.5	1116.2	719.8
77.5°	1237.7	1231.0	1321.9	1432.2	1498.5	1513.4	1510.4	1424.0	1229.5	927.7	603.6
80°	981.4	995.5	1052.2	1125.2	1191.5	1207.9	1197.5	1131.9	956.8	723.5	463.5
82.5°	686.3	703.4	751.1	806.3	856.2	856.2	865.9	802.5	678.1	519.4	324.1
85°	370.3	360.7	412.8	475.4	511.2	517.9	521.6	500.7	419.5	313.7	192.3
87.5°	61.1	65.6	81.2	124.4	141.6	163.9	174.4	136.4	82.7	52.9	38.7
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°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
2.5°	87.9	87.2	86.4	85.7	85.7	84.9	84.9	84.9	85.7	85.7	85.7
5°	90.2	89.4	88.7	87.9	86.4	86.4	86.4	86.4	86.4	86.4	86.4
7.5°	93.9	92.4	91.7	90.2	88.7	88.7	87.9	87.9	87.9	88.7	87.9
10°	98.4	96.9	95.4	93.1	92.4	91.7	90.9	90.9	91.7	91.7	90.9
12.5°	103.6	102.8	99.9	97.6	96.1	95.4	94.6	95.4	94.6	95.4	95.4
15°	111.0	108.8	105.1	102.8	100.6	99.9	99.1	99.9	99.9	100.6	99.9
17.5°	119.2	116.2	112.5	108.8	105.8	105.1	105.1	105.1	105.8	106.6	105.8
20°	128.9	125.2	120.0	115.5	112.5	111.8	111.8	112.5	113.3	114.0	114.0
22.5°	138.6	135.6	128.2	122.2	120.7	120.0	119.2	120.7	122.2	123.0	123.7
25°	153.5	147.5	138.6	131.9	128.9	128.9	129.7	131.1	131.9	133.4	132.6
27.5°	169.2	162.4	151.3	142.3	140.1	139.3	140.8	142.3	145.3	145.3	144.6
30°	190.8	179.6	165.4	157.2	151.3	152.0	154.2	156.5	159.5	161.0	161.0
32.5°	215.4	203.4	184.1	171.4	168.4	169.2	169.9	173.6	176.6	179.6	177.3
35°	247.4	232.5	208.6	194.5	187.0	186.3	189.3	193.7	196.7	198.2	198.2
37.5°	282.4	263.0	233.2	221.3	212.4	211.6	212.4	216.1	219.8	221.3	224.3
40°	324.9	301.0	266.0	246.6	239.9	238.5	241.4	246.6	246.6	248.9	249.6
42.5°	377.0	346.5	307.8	282.4	274.2	274.2	273.5	277.9	277.9	277.9	276.5
45°	443.4	409.1	358.4	332.3	318.2	310.7	313.0	310.0	309.2	311.5	304.8
47.5°	507.5	464.2	404.6	376.3	362.1	357.7	349.5	347.2	343.5	343.5	333.8
50°	582.0	528.3	470.9	430.7	417.3	404.6	397.9	387.5	376.3	374.1	370.3
52.5°	706.4	639.3	549.2	506.0	471.7	459.0	443.4	430.0	416.5	406.1	412.1
55°	757.1	688.5	602.8	561.1	537.3	525.3	496.3	478.4	458.3	443.4	451.6
57.5°	782.4	707.9	628.2	596.9	590.2	579.0	557.4	526.8	503.7	485.1	486.6
60°	796.6	718.3	641.6	613.3	609.5	617.0	605.8	584.9	549.2	530.6	528.3
62.5°	851.0	769.0	679.6	639.3	631.1	636.4	639.3	626.7	596.9	572.3	565.6
65°	862.1	775.0	687.0	661.0	661.7	663.2	665.4	652.0	637.1	606.6	600.6
67.5°	828.6	742.9	664.7	643.1	644.6	661.7	675.1	674.4	658.0	631.9	629.7
70°	777.9	694.5	622.2	602.8	606.6	622.2	651.3	666.2	663.2	646.1	649.8
72.5°	699.0	624.4	561.1	546.2	555.1	570.0	597.6	624.4	640.1	643.8	652.0
75°	606.6	546.9	487.3	478.4	485.1	502.2	527.6	558.9	593.1	611.8	617.0
77.5°	500.7	446.3	402.4	396.4	406.1	421.8	447.1	471.7	510.4	543.2	550.7
80°	392.0	345.0	313.7	308.5	314.5	327.9	347.2	367.4	404.6	430.0	433.7
82.5°	272.0	243.7	223.5	220.6	224.3	229.5	245.2	263.8	284.7	304.8	307.0
85°	158.0	140.1	134.9	130.4	138.6	138.6	142.3	152.8	163.2	164.7	169.2
87.5°	29.1	27.6	28.3	20.9	26.1	18.6	18.6	23.8	17.9	20.9	17.1
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)