

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: P821358

Luminaire Tested: **TT-D2-735-12VDC-T4-PM**

Issue Date: 5/19/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P821358  
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-D2-735-12VDC-T4-PM  
Description: TOPTIER LED SITE LUMINAIRE  
3500K, 70 CRI LEDS AND DRIVE LANE DISTRIBUTION  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

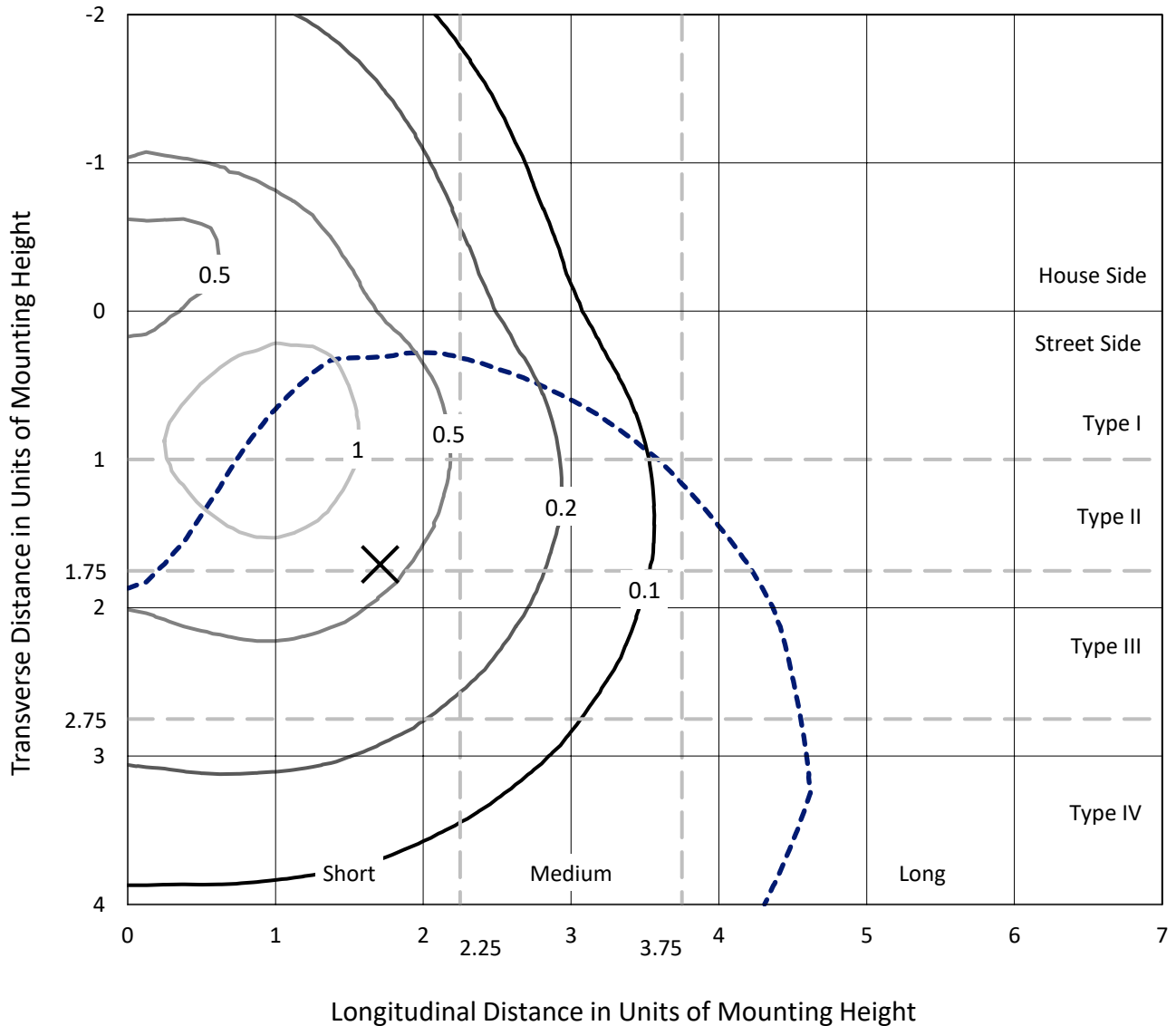
Lumens per Lamp: N/A  
Luminaire Lumens: 4230 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 38  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

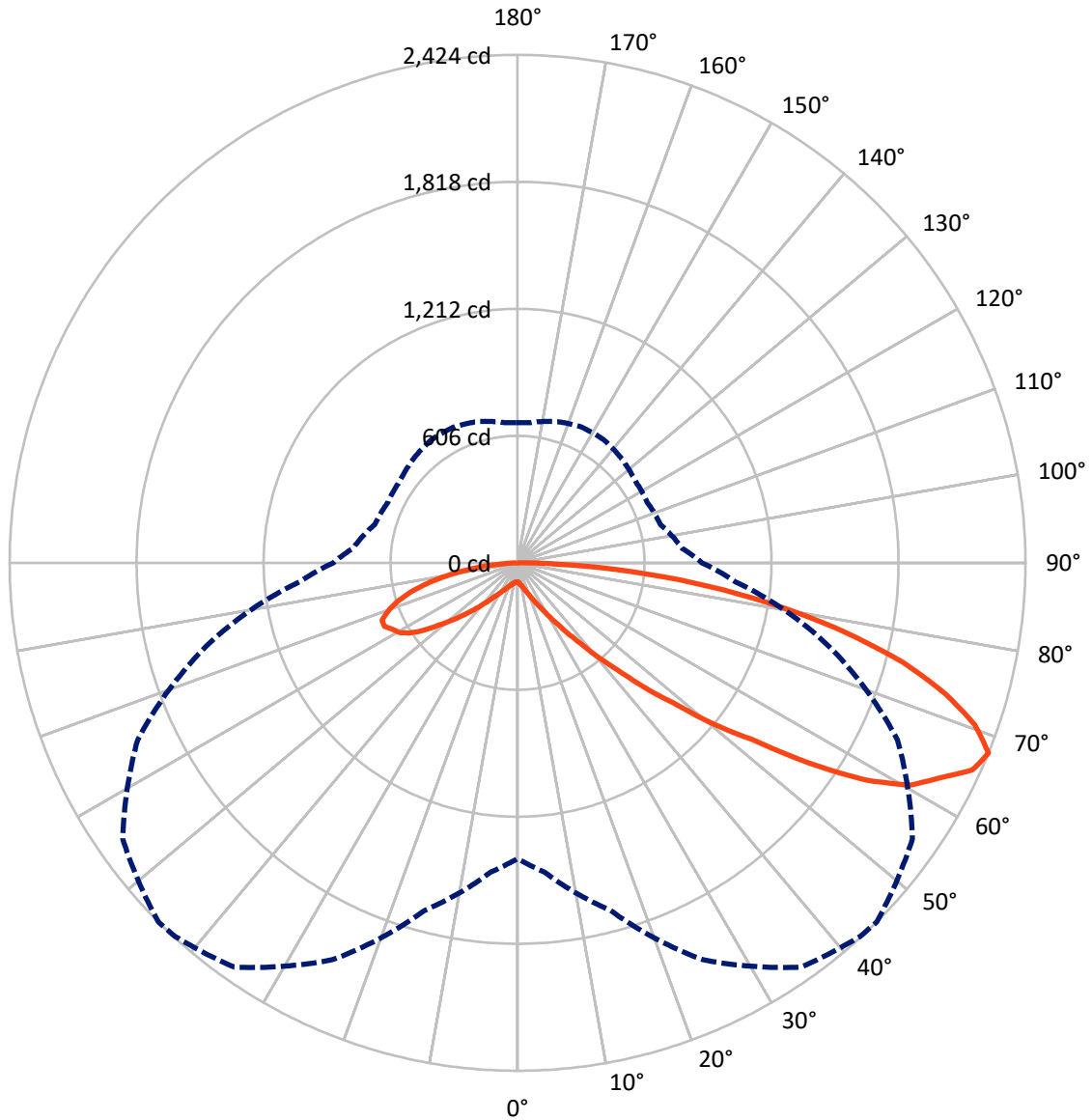
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 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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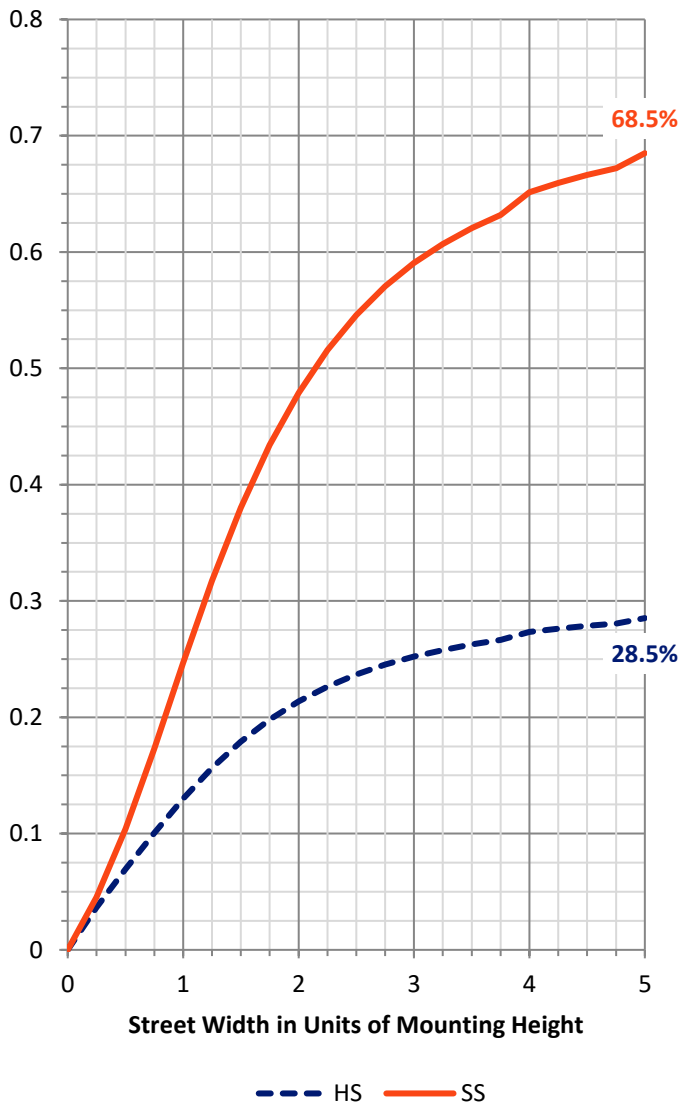
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1232.6	0.0	1232.6
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	2997.4	0.0	2997.4
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	4230.0	0.0	4230.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.4	0.2
10°-20°	35.1	0.8
20°-30°	83.0	2.0
30°-40°	187.8	4.4
40°-50°	418.7	9.9
50°-60°	841.7	19.9
60°-70°	1236.3	29.2
70°-80°	1087.1	25.7
80°-90°	330.9	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°	4230.0	100.0
0°-180°	4230.0	100.0

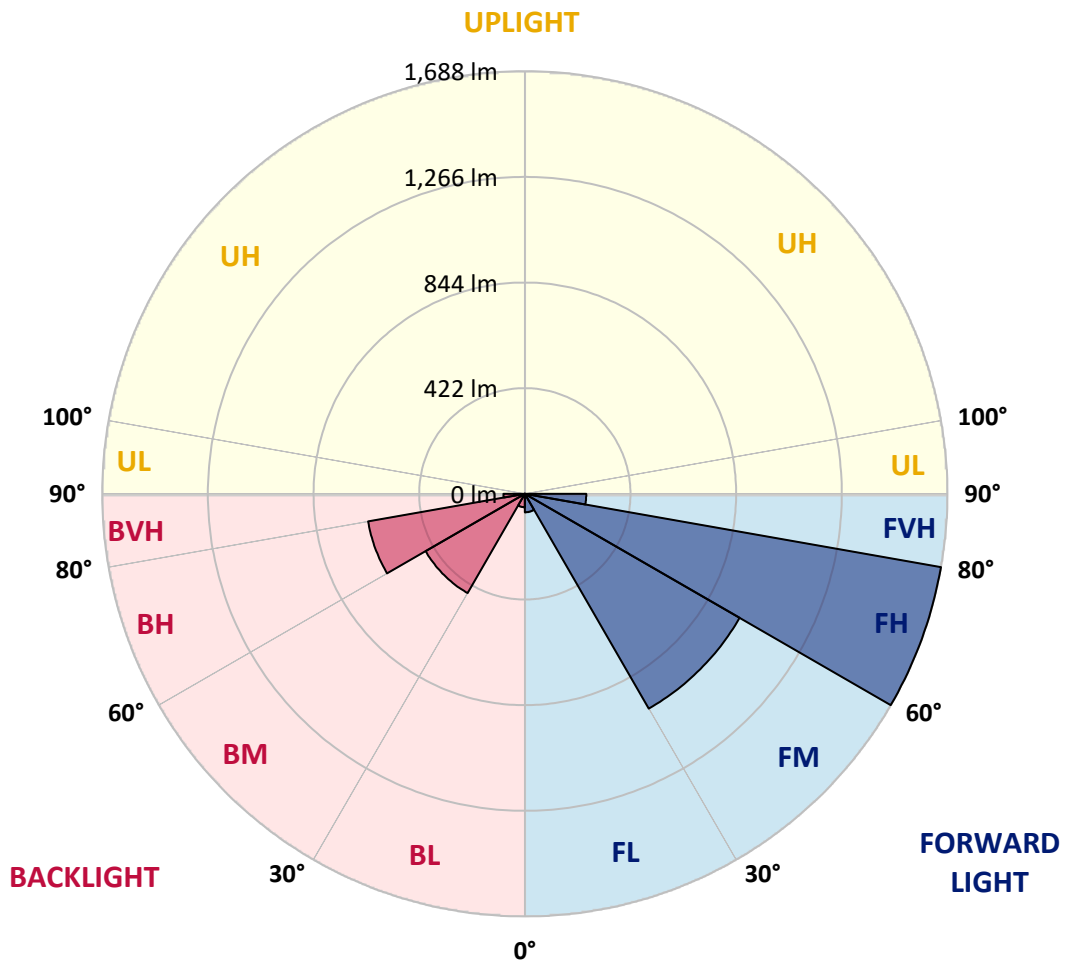


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	73.9	1.7			
FM (30°-60°)	990.6	23.4			
FH (60°-80°)	1687.7	39.9			G1/1800
FVH (80°-90°)	245.2	5.8			G3/500
BL (0°-30°)	53.6	1.3	B0/110		
BM (30°-60°)	457.6	10.8	B1/1000		
BH (60°-80°)	635.6	15.0	B2/1000		G2/1000
BVH (80°-90°)	85.7	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°	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
2.5°	95.7	94.9	94.9	94.9	94.1	94.1	94.1	94.1	93.3	93.3	93.3
5°	101.2	100.5	101.2	99.7	98.9	98.9	98.1	98.1	97.3	96.5	95.7
7.5°	109.2	108.4	108.4	106.8	106.0	105.2	105.2	103.6	102.8	101.2	99.7
10°	117.9	117.9	117.1	116.3	114.7	113.1	113.1	110.7	109.9	107.6	105.2
12.5°	128.1	128.1	128.1	126.6	125.0	124.2	122.6	121.0	118.6	114.7	112.3
15°	140.8	140.8	140.8	139.2	137.6	136.0	135.3	132.1	128.1	124.2	119.4
17.5°	156.6	155.0	155.0	153.4	151.9	151.1	149.5	146.3	140.8	136.0	129.7
20°	174.0	173.2	172.4	172.4	170.8	169.3	168.5	163.7	157.4	148.7	140.8
22.5°	193.8	193.0	193.0	194.6	193.8	191.4	191.4	184.3	175.6	165.3	153.4
25°	218.3	217.5	219.1	222.3	222.3	220.7	218.3	211.2	198.5	184.3	170.1
27.5°	245.2	244.4	247.6	253.1	254.7	252.3	250.7	242.8	228.6	209.6	189.0
30°	277.6	278.4	287.1	293.5	297.4	295.8	295.0	286.3	263.4	241.2	214.4
32.5°	317.2	314.8	325.9	336.2	343.3	347.2	344.9	334.6	314.8	280.0	246.0
35°	359.1	359.9	373.3	388.4	405.0	406.6	411.3	401.0	374.1	333.0	285.5
37.5°	413.7	407.3	424.8	453.2	473.0	490.4	487.2	480.9	449.3	394.7	329.8
40°	462.7	461.1	485.7	525.2	561.6	586.9	590.1	582.2	540.2	462.7	377.3
42.5°	518.9	523.6	557.6	612.2	667.6	704.0	695.3	691.3	642.3	543.4	442.2
45°	575.8	591.6	635.1	714.2	779.1	831.3	846.3	832.9	772.8	670.7	524.4
47.5°	644.6	666.0	719.8	826.6	932.6	993.5	996.6	1037.0	946.0	793.3	609.8
50°	735.6	745.1	820.2	950.7	1096.3	1181.7	1206.2	1207.0	1116.1	916.7	706.3
52.5°	825.0	832.1	931.0	1099.4	1297.2	1394.5	1400.0	1430.9	1306.7	1116.1	844.8
55°	932.6	929.4	1065.4	1267.9	1501.3	1642.8	1684.0	1725.9	1567.7	1273.5	923.9
57.5°	1037.0	1032.2	1195.9	1461.7	1780.5	1921.3	1955.3	1925.2	1690.3	1339.1	962.6
60°	1133.5	1150.1	1349.4	1676.1	1996.4	2130.9	2153.8	2072.3	1769.4	1389.7	987.1
62.5°	1233.9	1267.1	1508.4	1854.8	2161.7	2258.2	2259.8	2164.1	1901.5	1487.8	1067.0
65°	1328.0	1381.0	1631.8	2007.5	2277.2	2373.7	2384.8	2298.6	2031.2	1573.2	1080.5
67.5°	1411.1	1481.5	1717.2	2089.7	2355.5	2418.0	2423.5	2299.4	2000.4	1538.4	1043.3
70°	1478.3	1535.3	1770.2	2091.3	2300.9	2318.3	2314.4	2182.3	1914.9	1469.6	980.8
72.5°	1504.4	1551.1	1744.9	1993.2	2140.4	2136.4	2133.2	2011.4	1774.1	1354.9	890.6
75°	1467.3	1480.7	1606.5	1783.6	1877.0	1899.1	1902.3	1792.3	1556.6	1184.9	764.1
77.5°	1313.8	1306.7	1403.2	1520.2	1590.6	1606.5	1603.3	1511.5	1305.1	984.8	640.7
80°	1041.7	1056.7	1116.9	1194.4	1264.8	1282.2	1271.1	1201.5	1015.6	768.0	492.0
82.5°	728.5	746.7	797.3	855.8	908.8	908.8	919.1	851.9	719.8	551.3	344.1
85°	393.1	382.8	438.2	504.6	542.6	549.7	553.7	531.5	445.3	333.0	204.1
87.5°	64.9	69.6	86.2	132.1	150.3	174.0	185.1	144.7	87.8	56.2	41.1
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°	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
2.5°	93.3	92.5	91.8	91.0	91.0	90.2	90.2	90.2	91.0	91.0	91.0
5°	95.7	94.9	94.1	93.3	91.8	91.8	91.8	91.8	91.8	91.8	91.8
7.5°	99.7	98.1	97.3	95.7	94.1	94.1	93.3	93.3	93.3	94.1	93.3
10°	104.4	102.8	101.2	98.9	98.1	97.3	96.5	96.5	97.3	97.3	96.5
12.5°	109.9	109.2	106.0	103.6	102.0	101.2	100.5	101.2	100.5	101.2	101.2
15°	117.9	115.5	111.5	109.2	106.8	106.0	105.2	106.0	106.0	106.8	106.0
17.5°	126.6	123.4	119.4	115.5	112.3	111.5	111.5	111.5	112.3	113.1	112.3
20°	136.8	132.9	127.3	122.6	119.4	118.6	118.6	119.4	120.2	121.0	121.0
22.5°	147.1	144.0	136.0	129.7	128.1	127.3	126.6	128.1	129.7	130.5	131.3
25°	162.9	156.6	147.1	140.0	136.8	136.8	137.6	139.2	140.0	141.6	140.8
27.5°	179.6	172.4	160.6	151.1	148.7	147.9	149.5	151.1	154.2	154.2	153.4
30°	202.5	190.6	175.6	166.9	160.6	161.4	163.7	166.1	169.3	170.8	170.8
32.5°	228.6	215.9	195.4	181.9	178.8	179.6	180.3	184.3	187.5	190.6	188.3
35°	262.6	246.8	221.5	206.4	198.5	197.7	200.9	205.7	208.8	210.4	210.4
37.5°	299.8	279.2	247.6	234.9	225.4	224.6	225.4	229.4	233.3	234.9	238.1
40°	344.9	319.6	282.4	261.8	254.7	253.1	256.3	261.8	261.8	264.2	265.0
42.5°	400.2	367.8	326.7	299.8	291.1	291.1	290.3	295.0	295.0	295.0	293.5
45°	470.6	434.2	380.5	352.8	337.7	329.8	332.2	329.0	328.3	330.6	323.5
47.5°	538.7	492.8	429.5	399.4	384.4	379.7	371.0	368.6	364.6	364.6	354.4
50°	617.7	560.8	499.9	457.2	442.9	429.5	422.4	411.3	399.4	397.1	393.1
52.5°	749.8	678.7	582.9	537.1	500.7	487.2	470.6	456.4	442.2	431.1	437.4
55°	803.6	730.9	639.9	595.6	570.3	557.6	526.8	507.8	486.4	470.6	479.3
57.5°	830.5	751.4	666.8	633.6	626.4	614.6	591.6	559.2	534.7	514.9	516.5
60°	845.5	762.5	681.0	651.0	647.0	654.9	643.1	620.9	582.9	563.2	560.8
62.5°	903.3	816.3	721.4	678.7	670.0	675.5	678.7	665.2	633.6	607.5	600.3
65°	915.2	822.6	729.3	701.6	702.4	704.0	706.3	692.1	676.3	643.9	637.5
67.5°	879.6	788.6	705.5	682.6	684.2	702.4	716.6	715.8	698.4	670.7	668.4
70°	825.8	737.2	660.5	639.9	643.9	660.5	691.3	707.1	704.0	685.8	689.7
72.5°	741.9	662.8	595.6	579.8	589.3	605.1	634.4	662.8	679.4	683.4	692.1
75°	643.9	580.6	517.3	507.8	514.9	533.1	560.0	593.2	629.6	649.4	654.9
77.5°	531.5	473.8	427.1	420.8	431.1	447.7	474.6	500.7	541.8	576.6	584.5
80°	416.1	366.2	333.0	327.5	333.8	348.0	368.6	389.9	429.5	456.4	460.3
82.5°	288.7	258.6	237.3	234.1	238.1	243.6	260.2	280.0	302.2	323.5	325.9
85°	167.7	148.7	143.2	138.4	147.1	147.1	151.1	162.1	173.2	174.8	179.6
87.5°	30.8	29.3	30.1	22.1	27.7	19.8	19.8	25.3	19.0	22.1	18.2
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)