

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: P400626

Luminaire Tested: **TT-D3-827-U-DL**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-26)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D3-827-U-DL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
2700K, 80 CRI LEDS AND DRIVE LANE DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4469 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 48.8
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

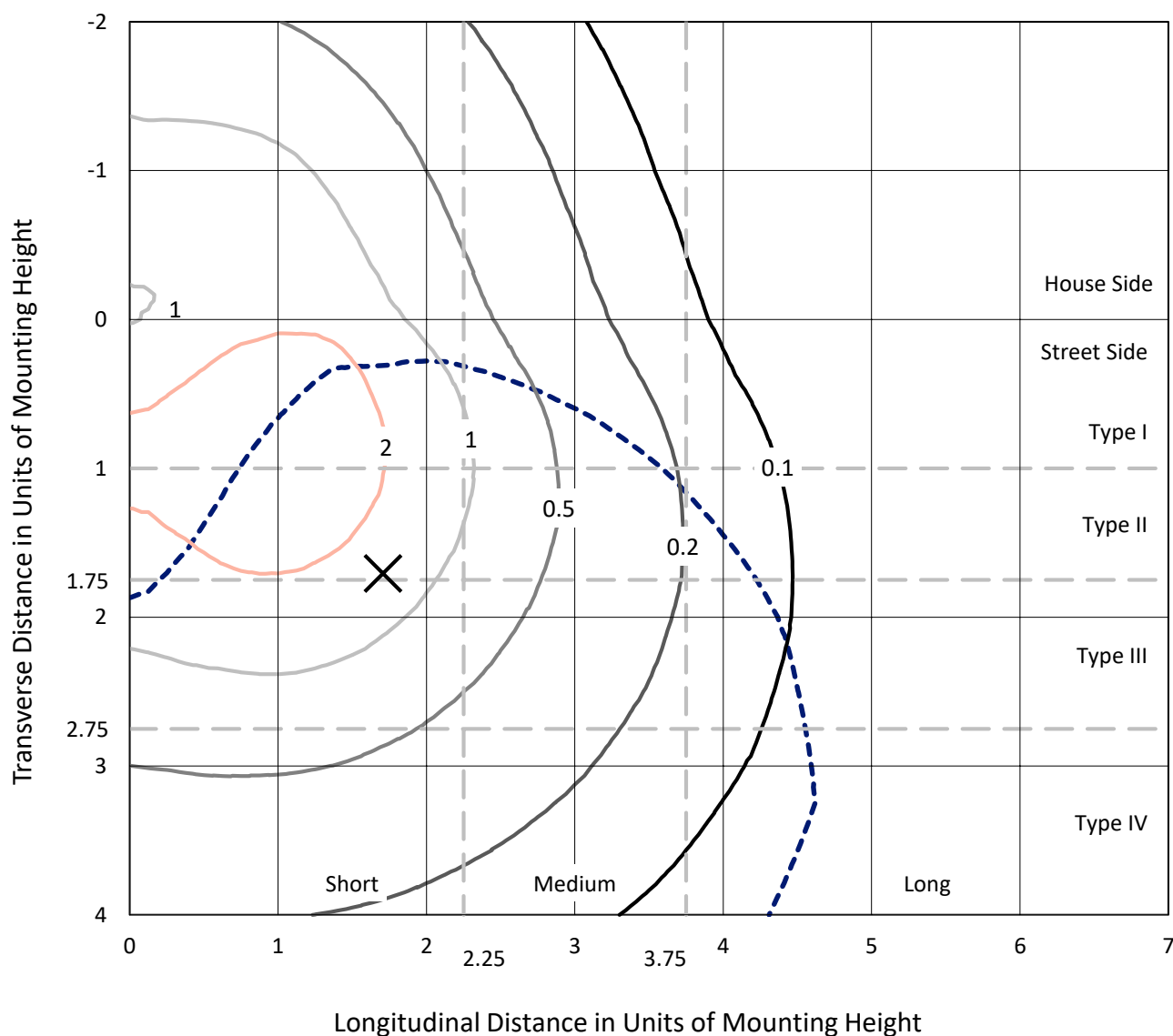


REPORT NUMBER: P400626

CATALOG NUMBER: TT-D3-827-U-DL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

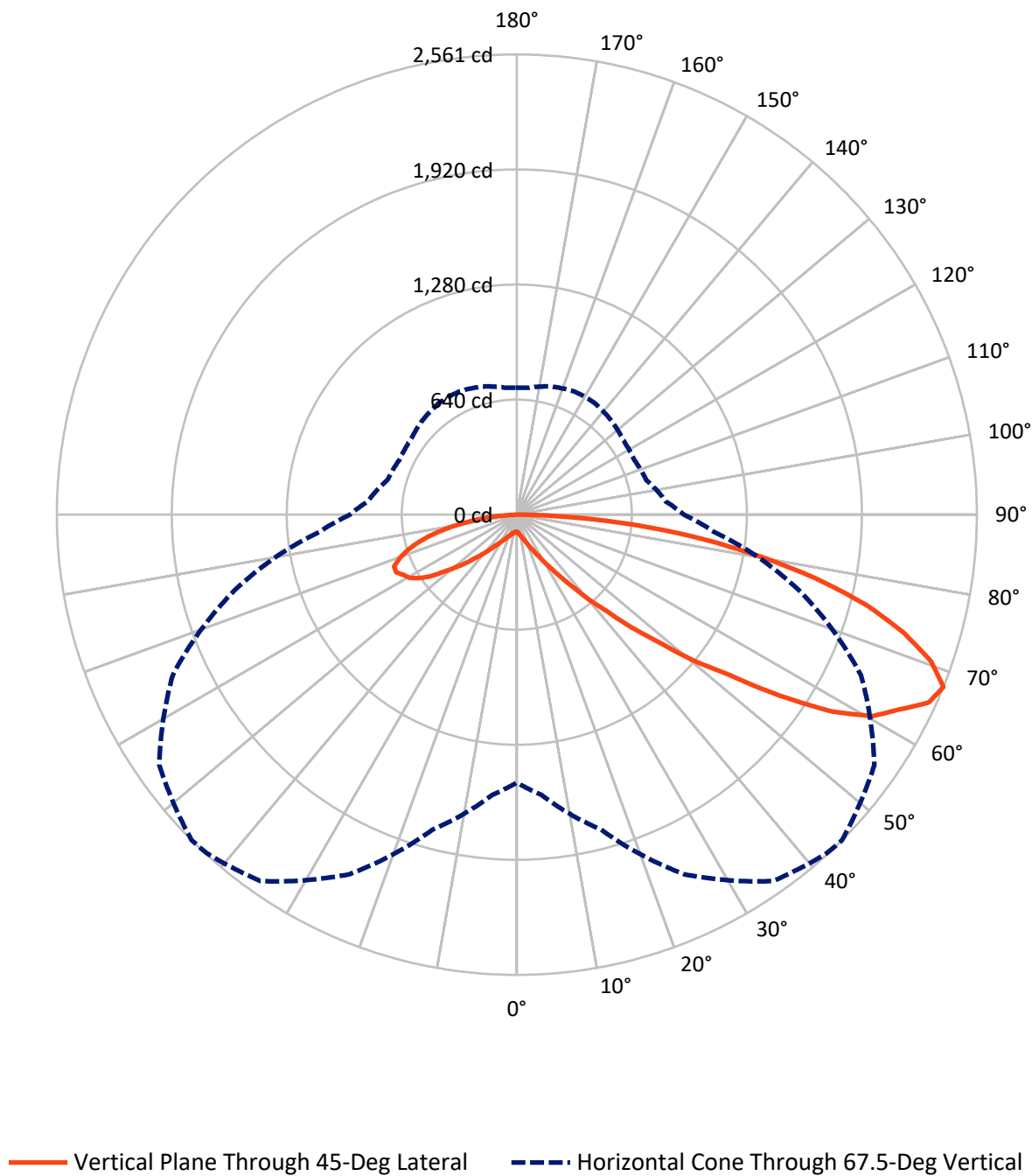


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P400626

CATALOG NUMBER: TT-D3-827-U-DL

Luminous Intensity Polar Plot



REPORT NUMBER: P400626

CATALOG NUMBER: TT-D3-827-U-DL

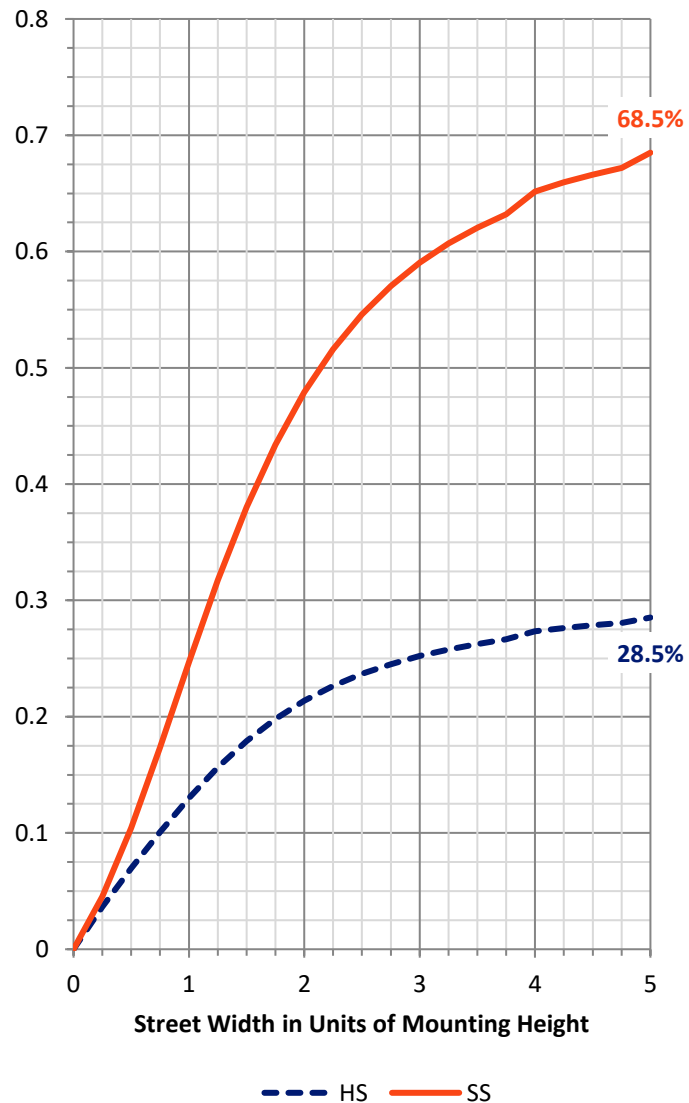
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1302.3	0.0	1302.3
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	3166.7	0.0	3166.7
	% Fixture	70.9	0.0	70.9
Total	Lumens	4469.0	0.0	4469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.2
10°-20°	37.1	0.8
20°-30°	87.7	2.0
30°-40°	198.4	4.4
40°-50°	442.3	9.9
50°-60°	889.3	19.9
60°-70°	1306.1	29.2
70°-80°	1148.5	25.7
80°-90°	349.6	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°	4469.0	100.0
0°-180°	4469.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400626

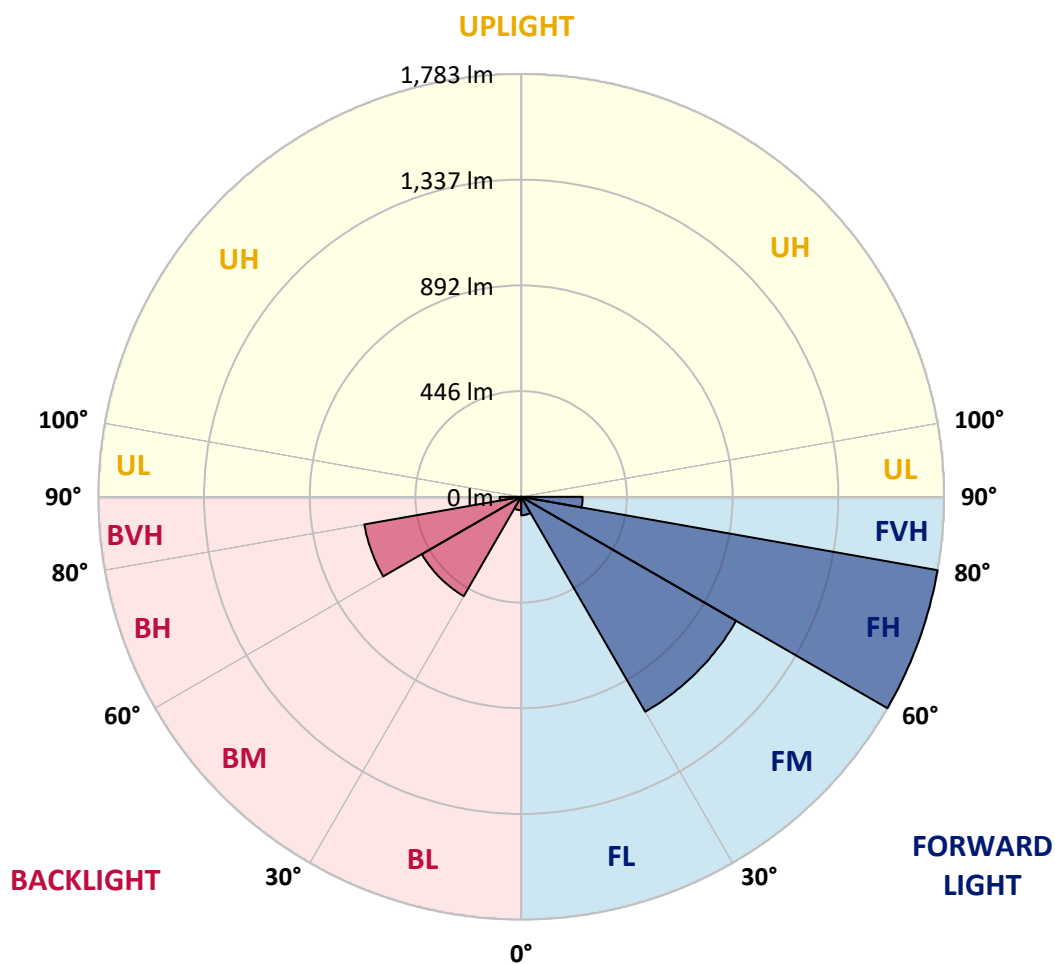
CATALOG NUMBER: TT-D3-827-U-DL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	78.0	1.7			
FM	(30°-60°)	1046.6	23.4			
FH	(60°-80°)	1783.1	39.9			G1/1800
FVH	(80°-90°)	259.1	5.8			G3/500
BL	(0°-30°)	56.7	1.3	B0/110		
BM	(30°-60°)	483.5	10.8	B1/1000		
BH	(60°-80°)	671.6	15.0	B2/1000		G2/1000
BVH	(80°-90°)	90.6	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





REPORT NUMBER: P400626

CATALOG NUMBER: TT-D3-827-U-DL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42.5°	45°	55°	65°	75°	85°
0°	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
2.5°	101.1	100.3	100.3	100.3	99.4	99.4	99.4	99.4	98.6	98.6	98.6
5°	107.0	106.1	107.0	105.3	104.5	104.5	103.6	103.6	102.8	102.0	101.1
7.5°	115.3	114.5	114.5	112.8	112.0	111.1	111.1	109.5	108.6	107.0	105.3
10°	124.5	124.5	123.7	122.8	121.2	119.5	119.5	117.0	116.2	113.6	111.1
12.5°	135.4	135.4	135.4	133.7	132.0	131.2	129.5	127.9	125.3	121.2	118.7
15°	148.7	148.7	148.7	147.1	145.4	143.7	142.9	139.6	135.4	131.2	126.2
17.5°	165.5	163.8	163.8	162.1	160.4	159.6	157.9	154.6	148.7	143.7	137.0
20°	183.8	183.0	182.2	182.2	180.5	178.8	178.0	173.0	166.3	157.1	148.7
22.5°	204.7	203.9	203.9	205.6	204.7	202.2	202.2	194.7	185.5	174.7	162.1
25°	230.6	229.8	231.5	234.8	234.8	233.1	230.6	223.1	209.8	194.7	179.7
27.5°	259.1	258.2	261.6	267.4	269.1	266.6	264.9	256.5	241.5	221.5	199.7
30°	293.3	294.2	303.3	310.0	314.2	312.5	311.7	302.5	278.3	254.9	226.5
32.5°	335.1	332.6	344.3	355.2	362.7	366.9	364.3	353.5	332.6	295.8	259.9
35°	379.4	380.2	394.4	410.3	427.9	429.5	434.5	423.7	395.3	351.8	301.7
37.5°	437.1	430.4	448.8	478.8	499.7	518.1	514.8	508.1	474.7	417.0	348.5
40°	488.9	487.2	513.1	554.9	593.3	620.1	623.4	615.0	570.8	488.9	398.6
42.5°	548.2	553.2	589.1	646.8	705.3	743.7	734.5	730.4	678.6	574.1	467.1
45°	608.4	625.1	671.0	754.6	823.1	878.3	894.2	880.0	816.4	708.6	554.0
47.5°	681.1	703.6	760.5	873.3	985.2	1049.6	1052.9	1095.6	999.5	838.2	644.3
50°	777.2	787.2	866.6	1004.5	1158.2	1248.5	1274.4	1275.2	1179.1	968.5	746.2
52.5°	871.6	879.1	983.6	1161.6	1370.5	1473.3	1479.1	1511.7	1380.5	1179.1	892.5
55°	985.2	981.9	1125.6	1339.6	1586.1	1735.7	1779.1	1823.4	1656.3	1345.4	976.1
57.5°	1095.6	1090.5	1263.5	1544.3	1881.1	2029.8	2065.8	2034.0	1785.8	1414.8	1017.0
60°	1197.5	1215.1	1425.6	1770.8	2109.2	2251.3	2275.5	2189.4	1869.4	1468.3	1042.9
62.5°	1303.6	1338.7	1593.6	1959.6	2283.9	2385.8	2387.5	2286.4	2008.9	1571.9	1127.3
65°	1403.1	1459.1	1724.0	2120.9	2405.9	2507.8	2519.5	2428.4	2146.0	1662.1	1141.5
67.5°	1490.8	1565.2	1814.2	2207.8	2488.6	2554.6	2560.5	2429.3	2113.4	1625.4	1102.2
70°	1561.9	1622.0	1870.2	2209.5	2430.9	2449.3	2445.1	2305.6	2023.1	1552.7	1036.2
72.5°	1589.4	1638.7	1843.5	2105.9	2261.3	2257.1	2253.8	2125.1	1874.4	1431.5	941.0
75°	1550.2	1564.4	1697.2	1884.4	1983.0	2006.4	2009.8	1893.6	1644.6	1251.8	807.2
77.5°	1388.0	1380.5	1482.5	1606.1	1680.5	1697.2	1693.9	1596.9	1378.8	1040.4	676.9
80°	1100.6	1116.4	1180.0	1261.8	1336.2	1354.6	1342.9	1269.4	1073.0	811.4	519.8
82.5°	769.6	788.9	842.3	904.2	960.2	960.2	971.0	900.0	760.5	582.5	363.5
85°	415.3	404.5	463.0	533.2	573.3	580.8	585.0	561.6	470.5	351.8	215.6
87.5°	68.5	73.5	91.1	139.6	158.8	183.8	195.5	152.9	92.8	59.3	43.5
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: P400626

CATALOG NUMBER: TT-D3-827-U-DL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
2.5°	98.6	97.8	96.9	96.1	96.1	95.3	95.3	95.3	96.1	96.1	96.1
5°	101.1	100.3	99.4	98.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9
7.5°	105.3	103.6	102.8	101.1	99.4	99.4	98.6	98.6	98.6	99.4	98.6
10°	110.3	108.6	107.0	104.5	103.6	102.8	102.0	102.0	102.8	102.8	102.0
12.5°	116.2	115.3	112.0	109.5	107.8	107.0	106.1	107.0	106.1	107.0	107.0
15°	124.5	122.0	117.8	115.3	112.8	112.0	111.1	112.0	112.0	112.8	112.0
17.5°	133.7	130.4	126.2	122.0	118.7	117.8	117.8	117.8	118.7	119.5	118.7
20°	144.6	140.4	134.5	129.5	126.2	125.3	125.3	126.2	127.0	127.9	127.9
22.5°	155.4	152.1	143.7	137.0	135.4	134.5	133.7	135.4	137.0	137.9	138.7
25°	172.1	165.5	155.4	147.9	144.6	144.6	145.4	147.1	147.9	149.6	148.7
27.5°	189.7	182.2	169.6	159.6	157.1	156.3	157.9	159.6	163.0	163.0	162.1
30°	213.9	201.4	185.5	176.3	169.6	170.5	173.0	175.5	178.8	180.5	180.5
32.5°	241.5	228.1	206.4	192.2	188.9	189.7	190.5	194.7	198.1	201.4	198.9
35°	277.4	260.7	234.0	218.1	209.8	208.9	212.3	217.3	220.6	222.3	222.3
37.5°	316.7	295.0	261.6	248.2	238.2	237.3	238.2	242.3	246.5	248.2	251.5
40°	364.3	337.6	298.3	276.6	269.1	267.4	270.8	276.6	276.6	279.1	279.9
42.5°	422.8	388.6	345.1	316.7	307.5	307.5	306.7	311.7	311.7	311.7	310.0
45°	497.2	458.8	402.0	372.7	356.8	348.5	351.0	347.6	346.8	349.3	341.8
47.5°	569.1	520.6	453.8	422.0	406.1	401.1	391.9	389.4	385.2	385.2	374.4
50°	652.7	592.5	528.1	483.0	468.0	453.8	446.2	434.5	422.0	419.5	415.3
52.5°	792.2	717.0	615.9	567.4	529.0	514.8	497.2	482.2	467.1	455.4	462.1
55°	849.0	772.2	676.1	629.3	602.5	589.1	556.6	536.5	513.9	497.2	506.4
57.5°	877.4	793.9	704.5	669.4	661.8	649.3	625.1	590.8	564.9	544.0	545.7
60°	893.3	805.6	719.5	687.7	683.6	691.9	679.4	656.0	615.9	595.0	592.5
62.5°	954.3	862.4	762.1	717.0	707.8	713.7	717.0	702.8	669.4	641.8	634.3
65°	966.9	869.1	770.5	741.2	742.1	743.7	746.2	731.2	714.5	680.2	673.5
67.5°	929.3	833.2	745.4	721.2	722.8	742.1	757.1	756.3	737.9	708.6	706.1
70°	872.4	778.8	697.8	676.1	680.2	697.8	730.4	747.1	743.7	724.5	728.7
72.5°	783.9	700.3	629.3	612.5	622.6	639.3	670.2	700.3	717.8	722.0	731.2
75°	680.2	613.4	546.5	536.5	544.0	563.2	591.6	626.7	665.2	686.1	691.9
77.5°	561.6	500.6	451.3	444.6	455.4	473.0	501.4	529.0	572.4	609.2	617.6
80°	439.6	386.9	351.8	346.0	352.6	367.7	389.4	412.0	453.8	482.2	486.4
82.5°	305.0	273.3	250.7	247.4	251.5	257.4	274.9	295.8	319.2	341.8	344.3
85°	177.2	157.1	151.3	146.2	155.4	155.4	159.6	171.3	183.0	184.7	189.7
87.5°	32.6	30.9	31.8	23.4	29.2	20.9	20.9	26.7	20.1	23.4	19.2
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)