

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: P400586

Luminaire Tested: **TT-D1-827-U-DL**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400586
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-D1-827-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: 2777 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 28.8
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

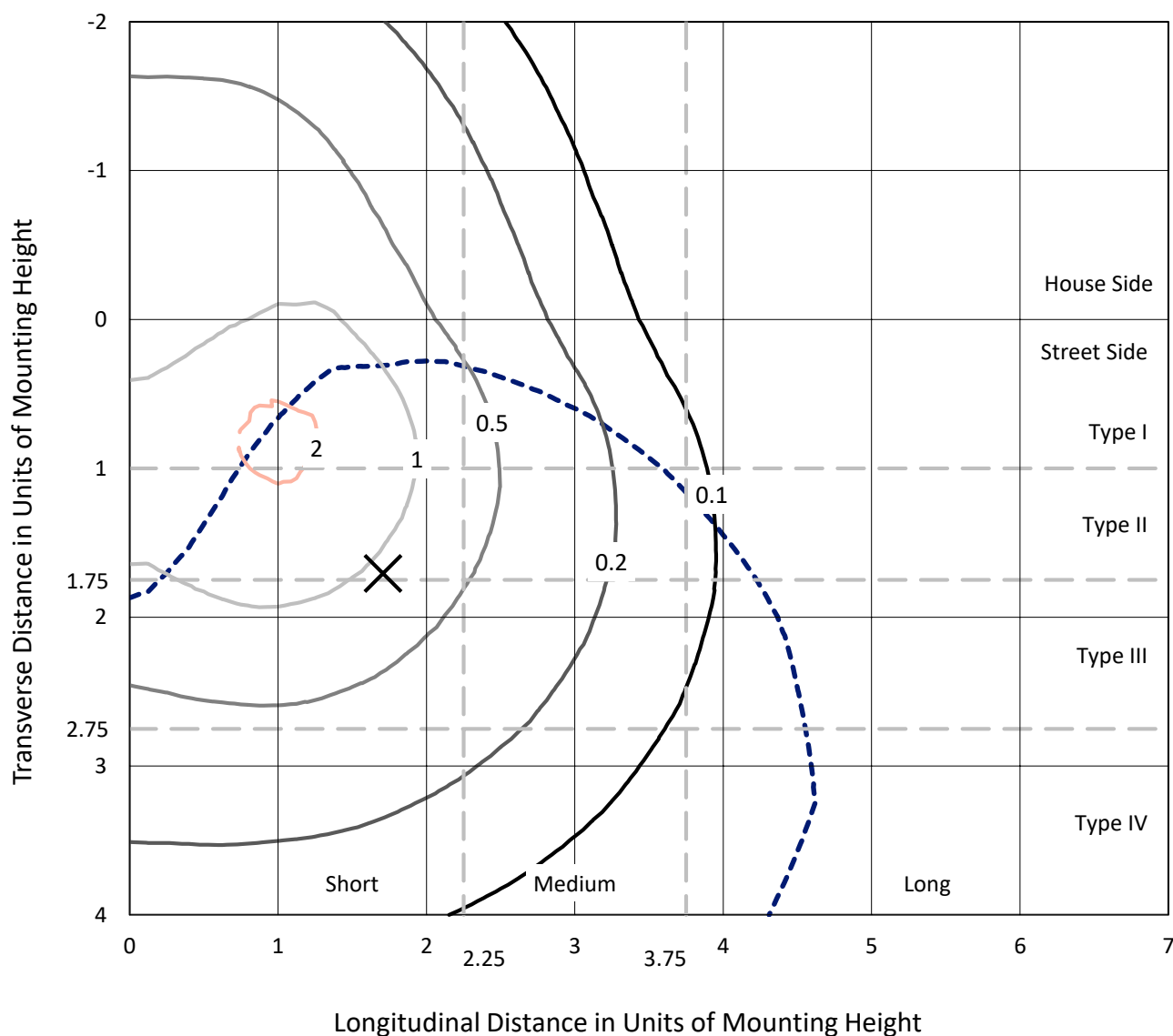


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

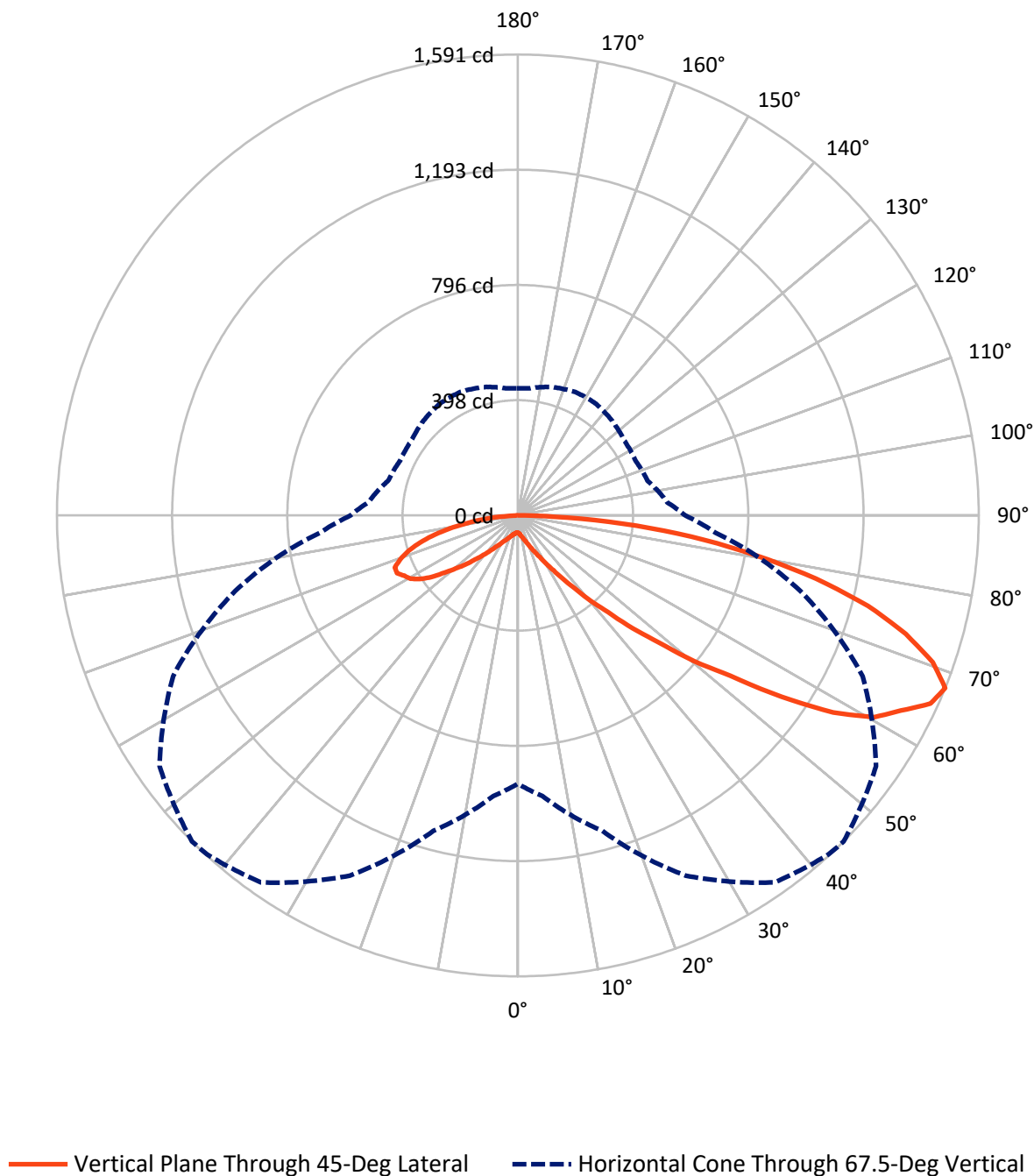


Based on 10 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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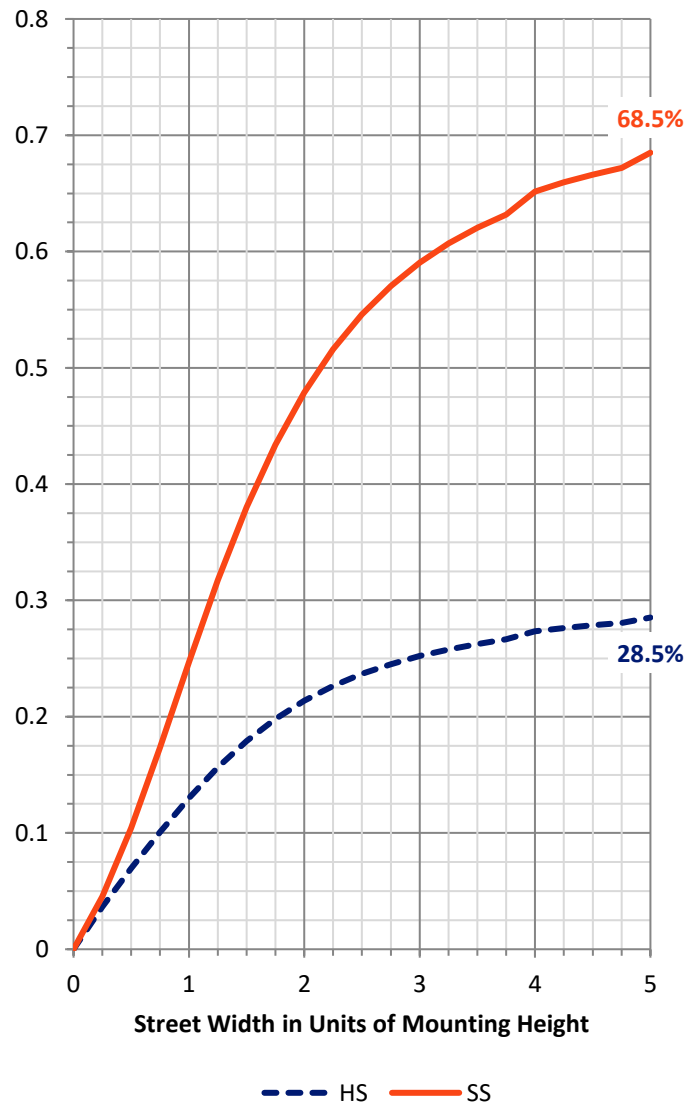
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	809.2	0.0	809.2
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	1967.8	0.0	1967.8
	% Fixture	70.9	0.0	70.9
Total	Lumens	2777.0	0.0	2777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.2
10°-20°	23.0	0.8
20°-30°	54.5	2.0
30°-40°	123.3	4.4
40°-50°	274.9	9.9
50°-60°	552.6	19.9
60°-70°	811.6	29.2
70°-80°	713.7	25.7
80°-90°	217.3	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°	2777.0	100.0
0°-180°	2777.0	100.0

Coefficient of Utilization



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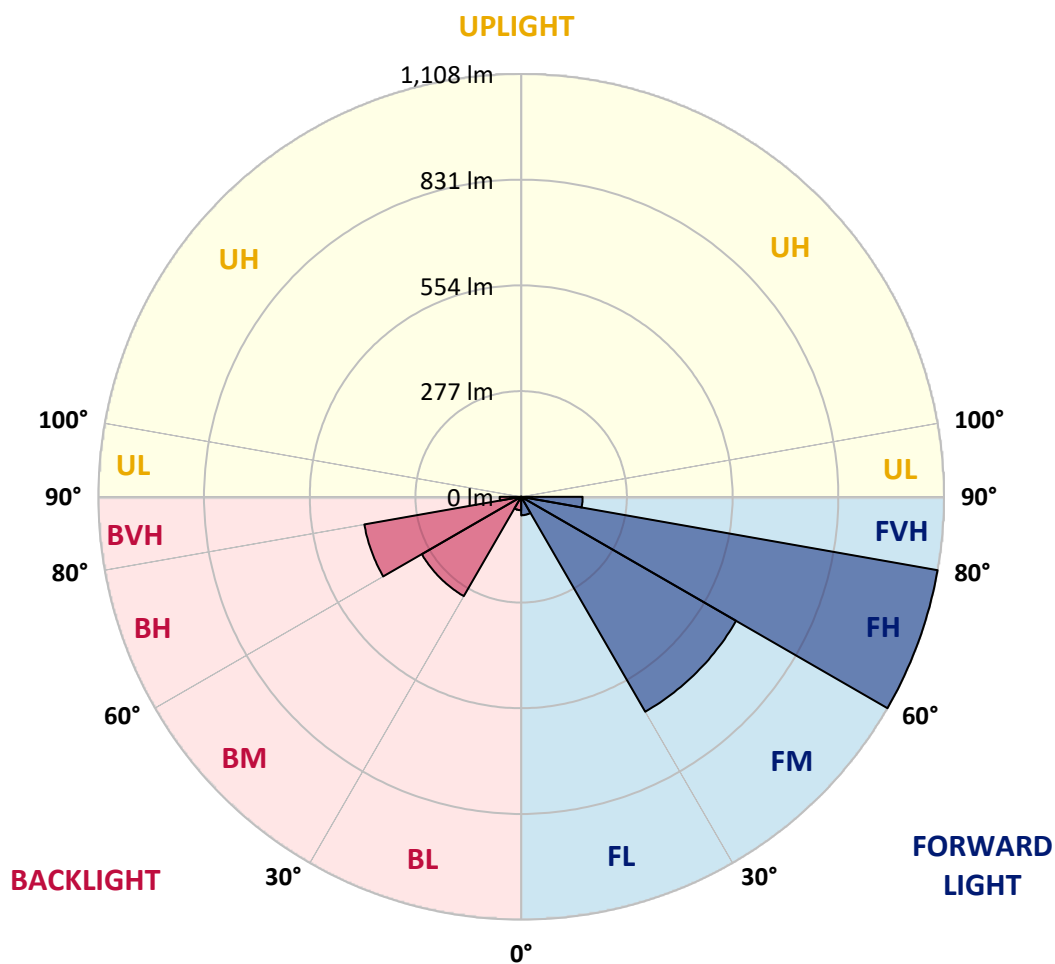
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	48.5	1.7			
FM	(30°-60°)	650.3	23.4			
FH	(60°-80°)	1108.0	39.9			G1/1800
FVH	(80°-90°)	161.0	5.8			G2/225
BL	(0°-30°)	35.2	1.3	B0/110		
BM	(30°-60°)	300.4	10.8	B1/1000		
BH	(60°-80°)	417.3	15.0	B1/500		G1/500
BVH	(80°-90°)	56.3	2.0			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42.5°	45°	55°	65°	75°	85°
0°	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
2.5°	62.8	62.3	62.3	62.3	61.8	61.8	61.8	61.8	61.3	61.3	61.3
5°	66.5	65.9	66.5	65.4	64.9	64.9	64.4	64.4	63.9	63.4	62.8
7.5°	71.7	71.1	71.1	70.1	69.6	69.1	69.1	68.0	67.5	66.5	65.4
10°	77.4	77.4	76.9	76.3	75.3	74.3	74.3	72.7	72.2	70.6	69.1
12.5°	84.1	84.1	84.1	83.1	82.0	81.5	80.5	79.4	77.9	75.3	73.7
15°	92.4	92.4	92.4	91.4	90.4	89.3	88.8	86.7	84.1	81.5	78.4
17.5°	102.8	101.8	101.8	100.7	99.7	99.2	98.1	96.1	92.4	89.3	85.2
20°	114.2	113.7	113.2	113.2	112.2	111.1	110.6	107.5	103.3	97.6	92.4
22.5°	127.2	126.7	126.7	127.7	127.2	125.7	125.7	121.0	115.3	108.5	100.7
25°	143.3	142.8	143.8	145.9	145.9	144.9	143.3	138.6	130.3	121.0	111.6
27.5°	161.0	160.5	162.5	166.2	167.2	165.6	164.6	159.4	150.1	137.6	124.1
30°	182.3	182.8	188.5	192.7	195.2	194.2	193.7	188.0	172.9	158.4	140.7
32.5°	208.2	206.7	213.9	220.7	225.4	228.0	226.4	219.7	206.7	183.8	161.5
35°	235.8	236.3	245.1	255.0	265.9	266.9	270.0	263.3	245.6	218.6	187.5
37.5°	271.6	267.4	278.8	297.5	310.5	321.9	319.9	315.7	294.9	259.1	216.5
40°	303.8	302.7	318.8	344.8	368.7	385.3	387.4	382.2	354.7	303.8	247.7
42.5°	340.6	343.8	366.1	401.9	438.3	462.2	456.4	453.8	421.6	356.7	290.3
45°	378.0	388.4	417.0	468.9	511.5	545.8	555.6	546.8	507.3	440.3	344.3
47.5°	423.2	437.2	472.5	542.6	612.2	652.2	654.3	680.8	621.1	520.8	400.4
50°	482.9	489.2	538.5	624.2	719.7	775.8	791.9	792.4	732.7	601.8	463.7
52.5°	541.6	546.3	611.2	721.8	851.6	915.5	919.1	939.4	857.8	732.7	554.6
55°	612.2	610.1	699.5	832.4	985.6	1078.5	1105.5	1133.1	1029.2	836.0	606.5
57.5°	680.8	677.7	785.1	959.6	1168.9	1261.3	1283.6	1263.9	1109.7	879.1	632.0
60°	744.1	755.0	885.9	1100.3	1310.6	1398.9	1414.0	1360.5	1161.6	912.4	648.1
62.5°	810.1	831.9	990.3	1217.7	1419.2	1482.5	1483.6	1420.7	1248.3	976.8	700.5
65°	871.9	906.7	1071.3	1317.9	1495.0	1558.3	1565.6	1509.0	1333.5	1032.8	709.3
67.5°	926.4	972.6	1127.3	1371.9	1546.4	1587.4	1591.1	1509.5	1313.2	1010.0	684.9
70°	970.5	1007.9	1162.1	1373.0	1510.6	1522.0	1519.4	1432.7	1257.2	964.8	643.9
72.5°	987.7	1018.3	1145.5	1308.6	1405.2	1402.6	1400.5	1320.5	1164.7	889.5	584.7
75°	963.3	972.1	1054.6	1171.0	1232.2	1246.8	1248.9	1176.7	1021.9	777.9	501.6
77.5°	862.5	857.8	921.2	998.0	1044.3	1054.6	1052.6	992.3	856.8	646.5	420.6
80°	683.9	693.7	733.2	784.1	830.3	841.7	834.5	788.8	666.7	504.2	323.0
82.5°	478.3	490.2	523.4	561.9	596.6	596.6	603.4	559.3	472.5	361.9	225.9
85°	258.1	251.3	287.7	331.3	356.2	360.9	363.5	349.0	292.4	218.6	134.0
87.5°	42.6	45.7	56.6	86.7	98.7	114.2	121.5	95.0	57.6	36.9	27.0
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°	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
2.5°	61.3	60.8	60.2	59.7	59.7	59.2	59.2	59.2	59.7	59.7	59.7
5°	62.8	62.3	61.8	61.3	60.2	60.2	60.2	60.2	60.2	60.2	60.2
7.5°	65.4	64.4	63.9	62.8	61.8	61.8	61.3	61.3	61.3	61.8	61.3
10°	68.5	67.5	66.5	64.9	64.4	63.9	63.4	63.4	63.9	63.9	63.4
12.5°	72.2	71.7	69.6	68.0	67.0	66.5	65.9	66.5	65.9	66.5	66.5
15°	77.4	75.8	73.2	71.7	70.1	69.6	69.1	69.6	69.6	70.1	69.6
17.5°	83.1	81.0	78.4	75.8	73.7	73.2	73.2	73.2	73.7	74.3	73.7
20°	89.8	87.2	83.6	80.5	78.4	77.9	77.9	78.4	78.9	79.4	79.4
22.5°	96.6	94.5	89.3	85.2	84.1	83.6	83.1	84.1	85.2	85.7	86.2
25°	107.0	102.8	96.6	91.9	89.8	89.8	90.4	91.4	91.9	92.9	92.4
27.5°	117.9	113.2	105.4	99.2	97.6	97.1	98.1	99.2	101.3	101.3	100.7
30°	132.9	125.1	115.3	109.6	105.4	105.9	107.5	109.0	111.1	112.2	112.2
32.5°	150.1	141.8	128.3	119.4	117.4	117.9	118.4	121.0	123.1	125.1	123.6
35°	172.4	162.0	145.4	135.5	130.3	129.8	131.9	135.0	137.1	138.1	138.1
37.5°	196.8	183.3	162.5	154.2	148.0	147.5	148.0	150.6	153.2	154.2	156.3
40°	226.4	209.8	185.4	171.9	167.2	166.2	168.2	171.9	171.9	173.4	174.0
42.5°	262.8	241.5	214.5	196.8	191.1	191.1	190.6	193.7	193.7	193.7	192.7
45°	309.0	285.1	249.8	231.6	221.7	216.5	218.1	216.0	215.5	217.1	212.4
47.5°	353.6	323.5	282.0	262.2	252.4	249.3	243.5	242.0	239.4	239.4	232.6
50°	405.6	368.2	328.2	300.1	290.8	282.0	277.3	270.0	262.2	260.7	258.1
52.5°	492.3	445.5	382.7	352.6	328.7	319.9	309.0	299.6	290.3	283.0	287.2
55°	527.6	479.8	420.1	391.0	374.4	366.1	345.8	333.4	319.4	309.0	314.7
57.5°	545.2	493.3	437.7	415.9	411.3	403.5	388.4	367.1	351.0	338.0	339.1
60°	555.1	500.6	447.1	427.4	424.8	430.0	422.2	407.6	382.7	369.7	368.2
62.5°	593.0	535.9	473.6	445.5	439.8	443.5	445.5	436.7	415.9	398.8	394.1
65°	600.8	540.0	478.8	460.6	461.1	462.2	463.7	454.4	444.0	422.7	418.5
67.5°	577.4	517.7	463.2	448.1	449.2	461.1	470.5	469.9	458.5	440.3	438.8
70°	542.1	484.0	433.6	420.1	422.7	433.6	453.8	464.2	462.2	450.2	452.8
72.5°	487.1	435.2	391.0	380.6	386.9	397.2	416.5	435.2	446.1	448.7	454.4
75°	422.7	381.1	339.6	333.4	338.0	350.0	367.6	389.5	413.3	426.3	430.0
77.5°	349.0	311.0	280.4	276.3	283.0	293.9	311.6	328.7	355.7	378.6	383.7
80°	273.1	240.4	218.6	215.0	219.1	228.5	242.0	256.0	282.0	299.6	302.2
82.5°	189.5	169.8	155.8	153.7	156.3	159.9	170.8	183.8	198.4	212.4	213.9
85°	110.1	97.6	94.0	90.9	96.6	96.6	99.2	106.5	113.7	114.8	117.9
87.5°	20.3	19.2	19.7	14.5	18.2	13.0	13.0	16.6	12.5	14.5	11.9
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)