

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: P198193

Luminaire Tested: **TT-C1-LED-E1-DL-CG-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34709)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C1-LED-E1-DL-CG-LWR-LW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2105.1 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 33.5
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: 25 FT



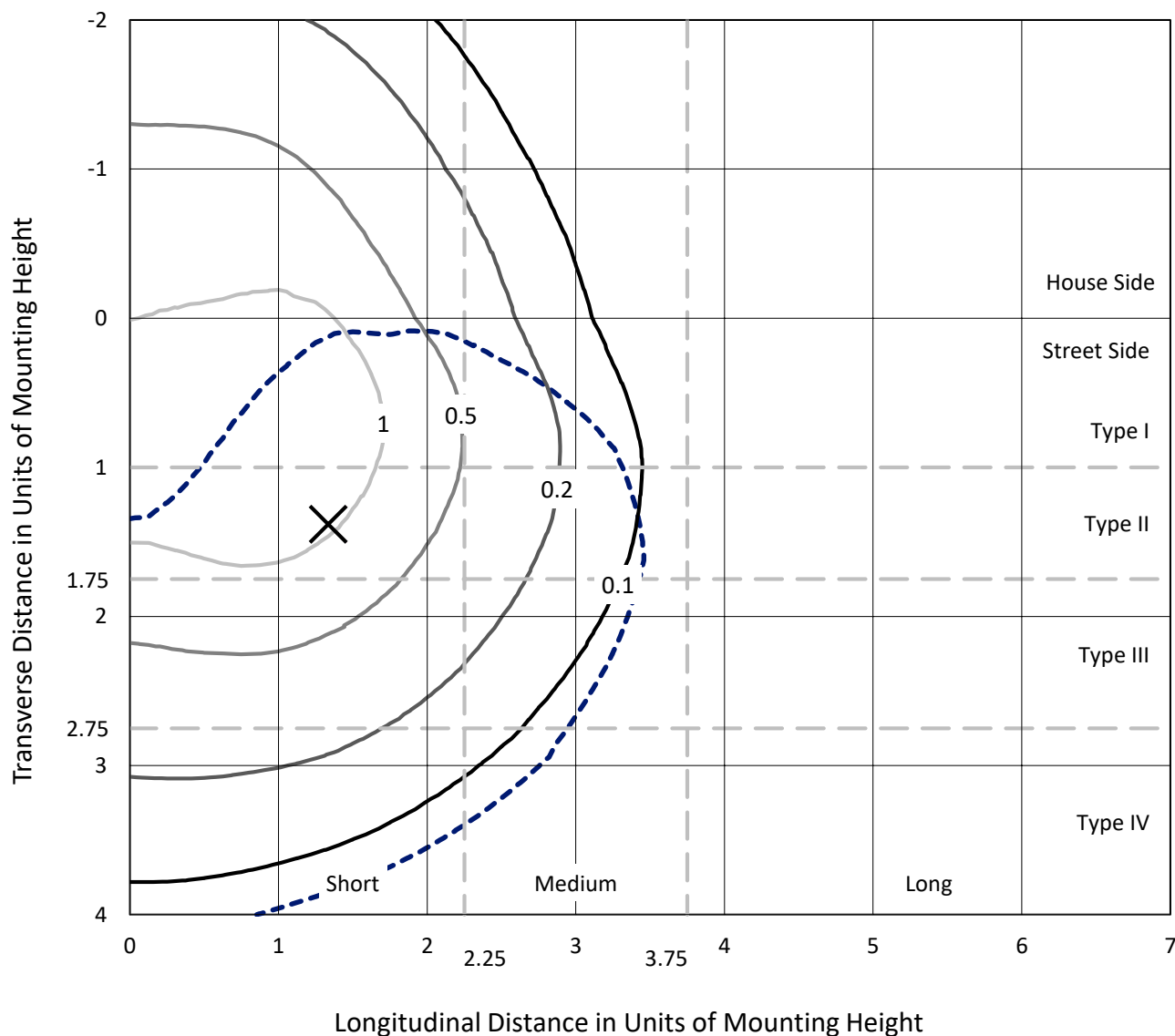
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

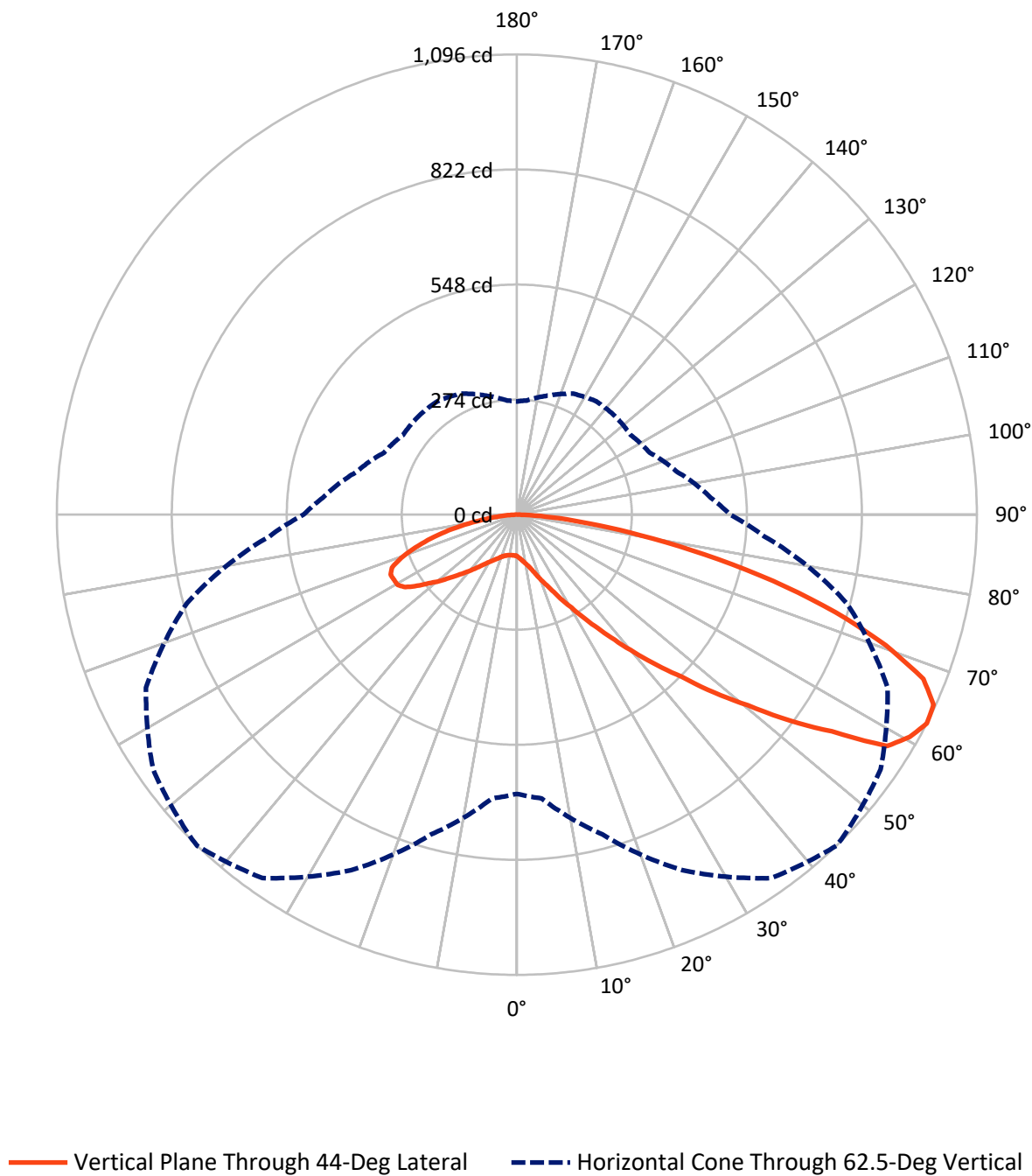


Based on 10 foot mounting height. Maximum calculated value = 2 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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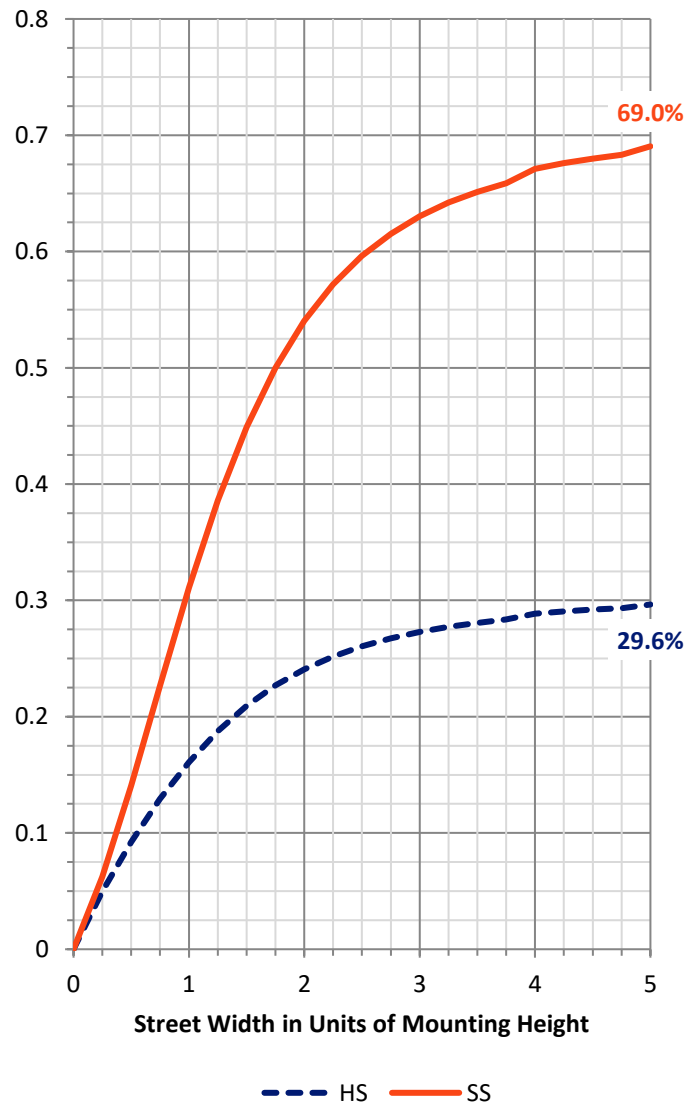
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	632.1	0.0	632.1
	% Fixture	30.0	0.0	30.0
Street Side	Lumens	1473.0	0.0	1473.0
	% Fixture	70.0	0.0	70.0
Total	Lumens	2105.1	0.0	2105.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	0.5
10°-20°	34.3	1.6
20°-30°	74.2	3.5
30°-40°	146.4	7.0
40°-50°	276.8	13.1
50°-60°	475.7	22.6
60°-70°	596.8	28.4
70°-80°	407.6	19.4
80°-90°	83.4	4.0
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°	2105.1	100.0
0°-180°	2105.1	100.0

Coefficient of Utilization



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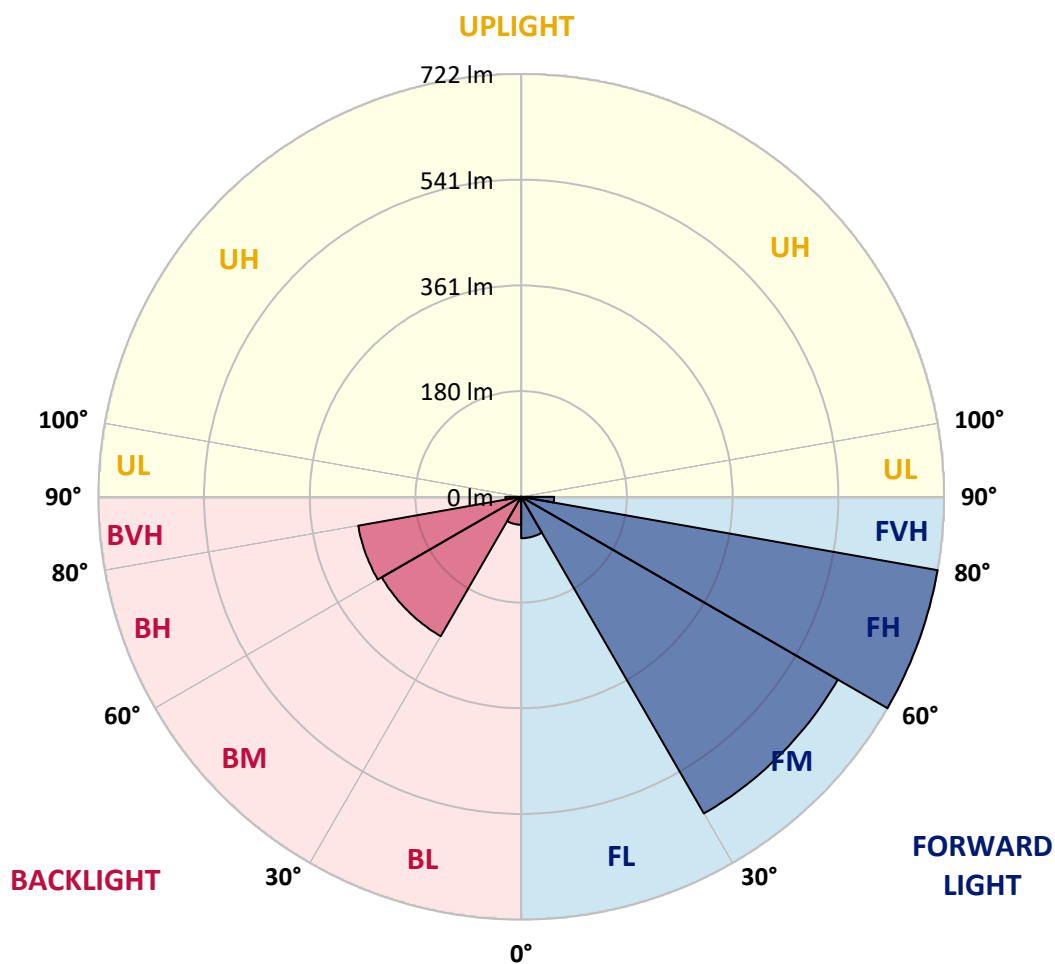
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	70.7	3.4			
FM	(30°-60°)	624.1	29.6			
FH	(60°-80°)	721.9	34.3			G1/1800
FVH	(80°-90°)	56.3	2.7			G1/100
BL	(0°-30°)	47.7	2.3	B0/110		
BM	(30°-60°)	274.7	13.0	B1/1000		
BH	(60°-80°)	282.6	13.4	B1/500		G1/500
BVH	(80°-90°)	27.1	1.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
2.5°	103.7	103.7	103.7	103.7	102.8	102.8	102.8	102.4	101.9	101.0	100.6
5°	109.0	109.5	109.0	108.6	107.7	107.2	106.8	106.4	105.0	103.7	102.4
7.5°	115.7	115.2	115.2	114.8	113.5	112.6	112.6	110.8	109.0	107.2	105.0
10°	122.8	123.2	123.2	121.9	121.0	119.2	119.2	116.6	114.3	111.7	109.0
12.5°	131.6	131.2	132.1	131.2	129.9	126.7	126.7	124.5	120.5	117.0	113.5
15°	142.7	142.7	143.1	141.4	140.0	136.9	137.8	132.1	128.5	124.5	118.8
17.5°	156.9	156.9	155.6	154.7	152.5	150.7	148.9	144.0	138.7	132.1	125.4
20°	172.8	173.3	171.1	171.1	168.4	166.2	164.9	159.1	151.1	142.3	133.8
22.5°	192.3	191.5	189.7	187.9	186.6	182.6	183.9	176.4	165.7	153.8	142.7
25°	207.9	209.2	209.2	210.5	208.3	203.9	205.2	195.9	183.5	169.3	153.8
27.5°	226.9	229.6	231.8	234.4	233.6	230.5	229.6	221.1	205.2	188.4	167.5
30°	247.7	251.7	253.5	258.4	259.7	257.0	256.6	248.2	232.7	207.4	184.8
32.5°	274.8	274.3	279.6	288.1	293.4	292.1	291.6	282.3	261.5	234.9	203.9
35°	300.9	301.8	308.0	320.9	329.3	331.9	331.5	321.7	300.9	267.7	229.1
37.5°	329.3	330.6	342.6	358.1	371.8	378.5	378.5	374.0	346.1	301.4	257.0
40°	357.2	363.4	377.1	397.1	420.1	431.2	430.8	423.7	398.0	347.9	286.3
42.5°	390.9	397.1	412.2	440.5	469.3	490.6	490.6	488.4	456.0	402.4	328.8
45°	424.1	429.4	448.1	484.0	526.1	550.9	554.0	561.9	539.3	464.0	378.0
47.5°	459.6	464.0	487.9	533.1	585.9	634.2	637.3	643.5	607.2	524.3	416.6
50°	495.0	496.8	531.8	592.5	667.4	713.5	723.7	736.1	685.6	597.0	460.0
52.5°	535.8	536.7	577.5	655.0	748.5	815.9	817.7	826.5	798.6	686.0	541.1
55°	571.7	573.0	625.3	725.0	846.9	911.6	929.3	955.0	886.8	745.9	565.1
57.5°	604.9	610.3	682.1	809.7	942.2	1040.1	1037.0	1035.7	938.7	769.8	569.9
60°	637.3	647.0	738.8	878.4	1012.2	1075.6	1079.1	1053.9	952.4	779.5	565.1
62.5°	665.2	678.5	788.4	934.7	1057.0	1096.4	1094.2	1058.3	975.0	813.7	591.6
65°	685.2	703.3	811.0	958.6	1053.4	1091.5	1094.6	1075.6	994.5	815.4	583.7
67.5°	695.3	721.1	810.6	942.6	1026.8	1045.0	1046.3	1011.3	934.7	772.0	534.0
70°	698.0	714.8	788.9	884.1	934.7	932.9	930.7	904.5	831.0	688.7	474.6
72.5°	669.2	684.3	720.2	778.7	799.0	794.6	786.2	756.9	707.3	592.1	404.6
75°	605.8	611.1	612.5	628.9	629.8	631.1	621.3	602.3	567.3	478.6	323.1
77.5°	487.9	495.9	478.6	460.0	459.6	457.8	455.6	431.7	414.8	359.0	240.2
80°	355.4	351.9	337.7	316.4	302.2	297.8	295.2	288.5	278.3	246.0	167.1
82.5°	214.5	218.5	203.9	188.8	181.3	173.7	177.7	170.6	165.3	150.2	102.4
85°	96.2	96.2	93.1	89.1	82.9	83.3	84.2	81.5	78.0	70.5	49.2
87.5°	18.6	16.8	18.2	18.6	17.3	17.7	19.1	19.9	20.8	19.5	14.6
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°	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
2.5°	100.6	100.2	99.7	98.8	97.9	97.5	97.1	96.6	96.6	96.2	96.2
5°	101.9	101.5	100.6	99.7	98.8	97.5	96.6	96.2	95.3	95.3	95.3
7.5°	104.1	103.3	101.5	100.2	98.8	97.5	96.6	95.7	95.3	94.4	94.4
10°	107.2	105.9	103.7	101.0	99.3	97.9	96.6	95.7	95.3	94.8	94.8
12.5°	111.7	109.5	105.9	103.3	100.6	98.8	97.5	96.6	96.2	95.7	95.7
15°	116.1	113.9	109.5	105.5	102.4	100.6	98.8	98.4	97.5	97.5	97.5
17.5°	122.3	118.8	113.5	109.0	105.5	102.8	101.5	100.2	100.2	100.6	100.6
20°	129.4	125.4	118.8	113.0	109.0	106.4	105.0	104.1	103.7	104.1	104.6
22.5°	137.8	132.1	123.6	118.3	113.9	110.8	109.5	108.6	108.1	109.0	108.6
25°	146.2	140.5	130.7	123.6	118.3	116.1	114.8	114.3	113.5	114.3	113.9
27.5°	160.4	152.5	139.2	129.9	125.0	122.3	120.5	119.7	119.7	119.7	119.2
30°	172.8	163.5	148.0	138.7	131.6	128.5	126.7	126.3	126.3	126.7	126.3
32.5°	190.1	178.6	160.4	148.0	141.4	136.5	134.7	134.3	134.3	133.8	134.3
35°	212.3	198.5	174.6	160.0	151.1	146.7	144.9	144.5	143.1	143.1	143.1
37.5°	236.2	218.0	191.5	175.5	164.4	158.7	156.0	154.2	153.3	152.5	152.5
40°	262.4	241.5	211.8	191.0	179.5	172.0	167.1	164.4	163.1	161.8	160.9
42.5°	296.5	273.4	235.3	210.1	195.4	187.0	179.9	177.3	173.7	172.4	169.7
45°	341.2	312.0	264.6	236.2	214.9	203.0	195.9	190.1	185.7	183.5	181.3
47.5°	376.3	341.7	292.9	258.8	238.0	222.5	212.7	203.4	198.1	194.1	193.2
50°	411.7	375.4	323.1	282.3	259.3	245.5	232.7	221.1	211.4	207.0	207.9
52.5°	480.4	436.5	363.4	314.2	281.9	266.3	253.1	238.9	227.8	220.7	221.1
55°	499.9	455.1	389.6	345.2	314.2	293.8	276.1	260.6	244.6	234.4	234.9
57.5°	498.6	454.3	391.8	353.7	333.3	318.6	302.2	281.0	262.4	249.1	247.3
60°	491.9	447.2	387.8	349.2	334.2	330.6	322.2	302.7	277.4	262.4	259.3
62.5°	508.3	464.0	394.9	349.2	331.1	331.5	329.7	317.8	293.8	273.0	269.5
65°	501.2	453.4	390.4	352.3	336.8	333.3	332.4	320.9	304.5	281.0	277.9
67.5°	459.1	417.5	360.3	326.6	320.0	323.1	327.5	320.0	303.6	285.8	281.9
70°	402.8	367.4	319.1	289.8	286.7	292.9	303.1	304.0	294.7	281.0	281.4
72.5°	339.9	311.6	270.8	250.8	247.3	253.1	265.9	272.1	272.6	267.7	267.2
75°	273.0	247.3	218.0	201.2	202.1	211.0	220.7	231.3	234.9	238.0	240.6
77.5°	203.4	189.7	164.9	153.8	156.0	165.7	172.0	178.6	186.1	189.7	192.3
80°	142.3	130.3	113.9	107.2	109.9	115.7	121.0	126.7	136.5	136.9	142.3
82.5°	89.1	81.1	72.7	70.5	70.9	73.1	79.3	82.9	87.3	88.6	87.7
85°	43.4	41.7	39.0	37.7	38.1	40.3	44.3	47.0	49.6	49.2	46.5
87.5°	13.7	14.2	14.6	15.1	15.1	16.4	17.7	17.7	18.6	18.2	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)