

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: P198173

Luminaire Tested: **TT-C2-LED-E1-DL-MS/DIM-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34704)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C2-LED-E1-DL-MS/DIM-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2800.4 lumens
Efficiency: N/A
Efficacy: 67.6 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): 41.4
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



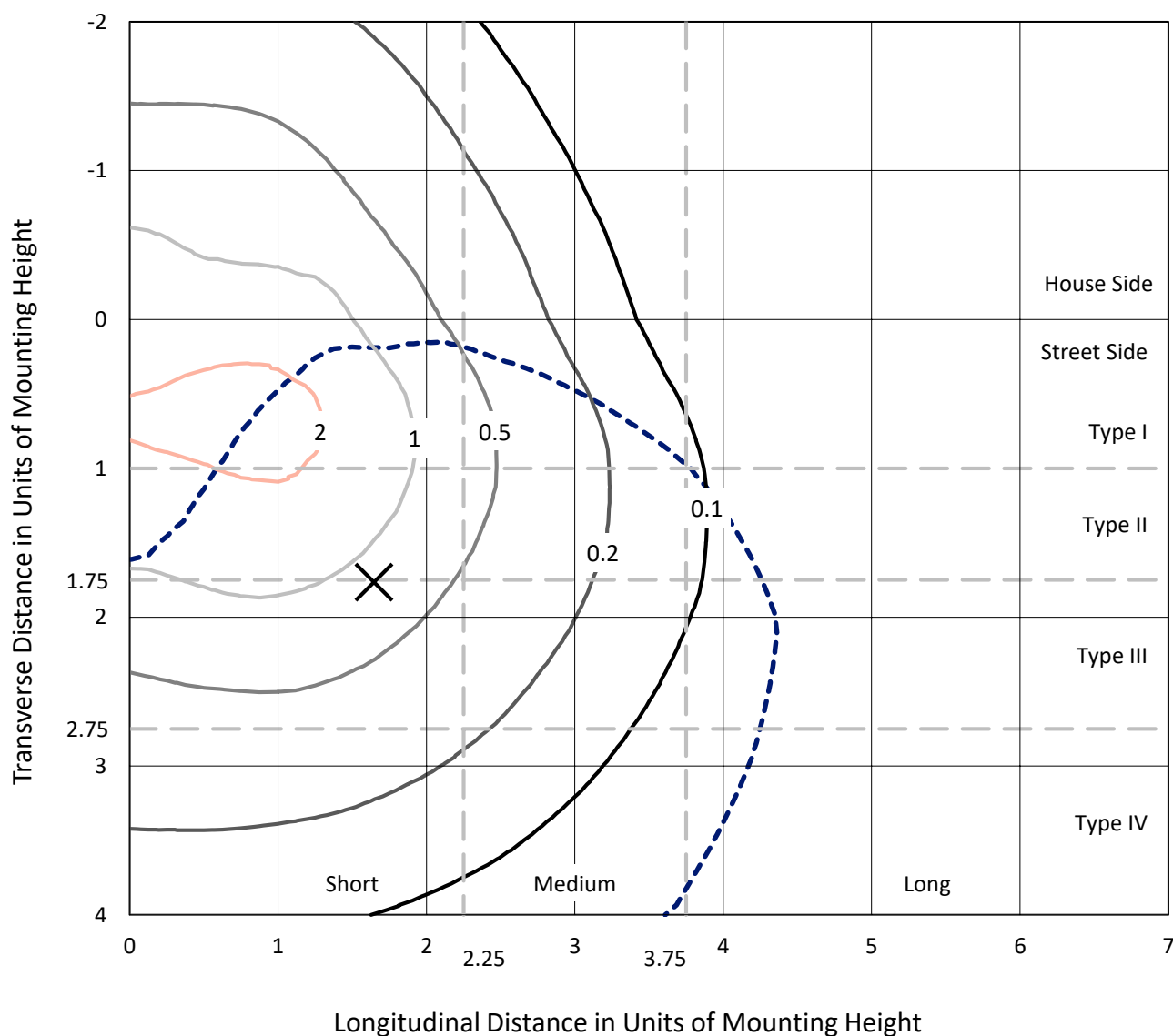
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

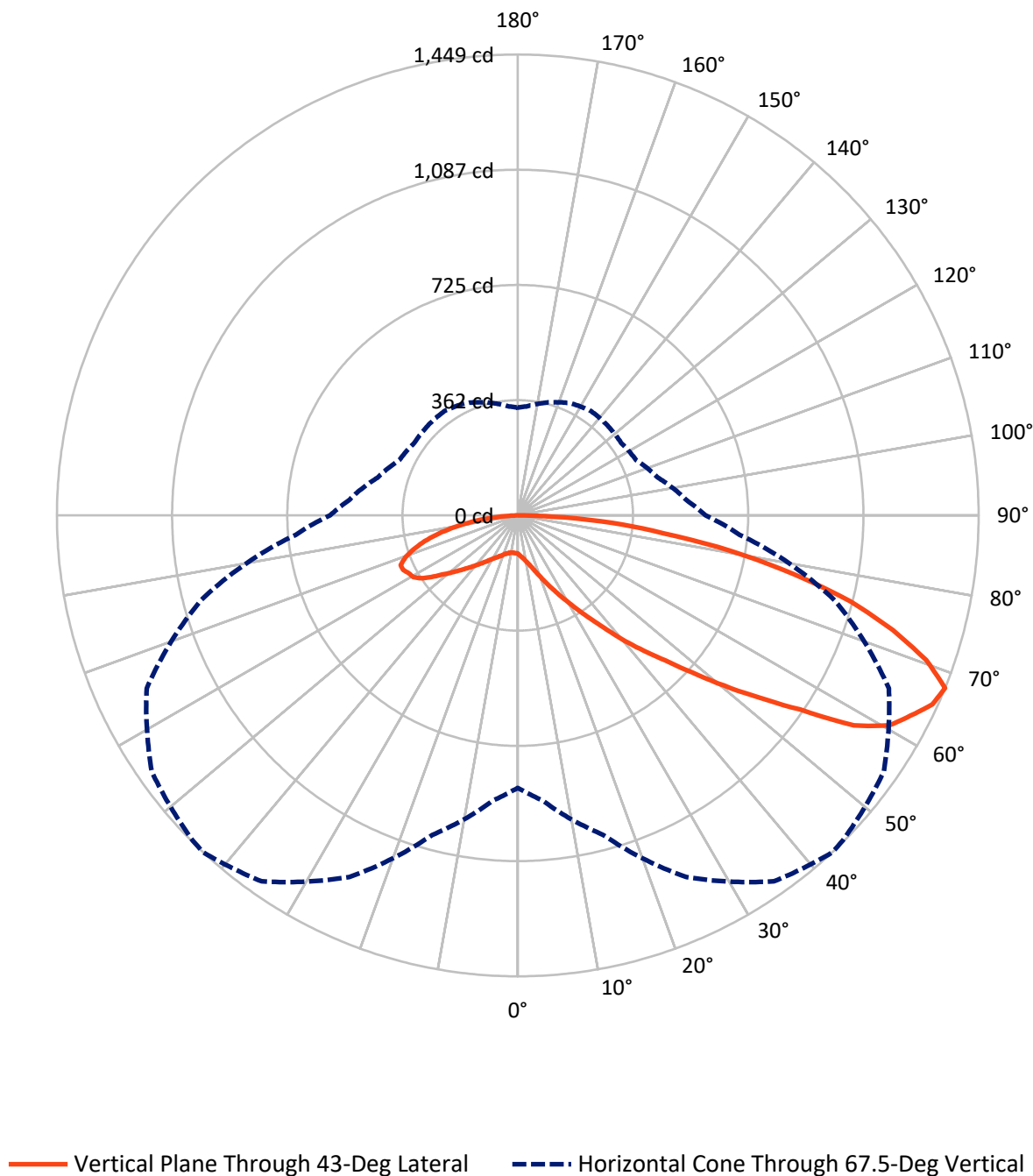


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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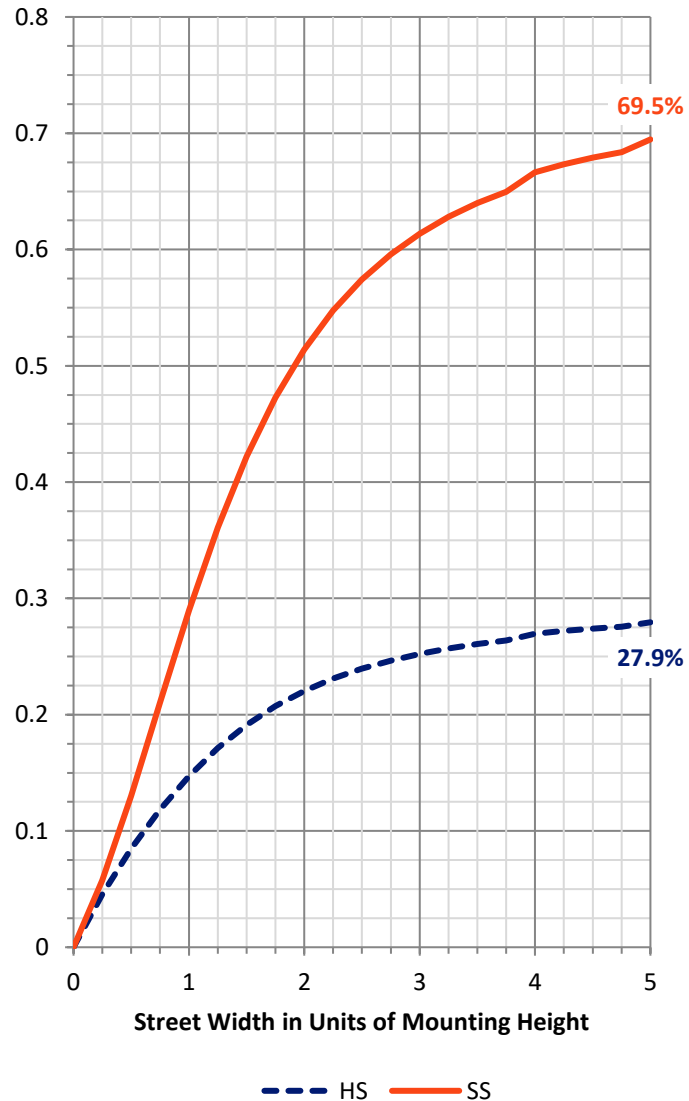
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	799.4	0.0	799.4
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	2001.0	0.0	2001.0
	% Fixture	71.5	0.0	71.5
Total	Lumens	2800.4	0.0	2800.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.2	0.4
10°-20°	42.4	1.5
20°-30°	91.9	3.3
30°-40°	177.5	6.3
40°-50°	325.9	11.6
50°-60°	562.9	20.1
60°-70°	761.1	27.2
70°-80°	637.4	22.8
80°-90°	189.0	6.7
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°	2800.4	100.0
0°-180°	2800.4	100.0

Coefficient of Utilization



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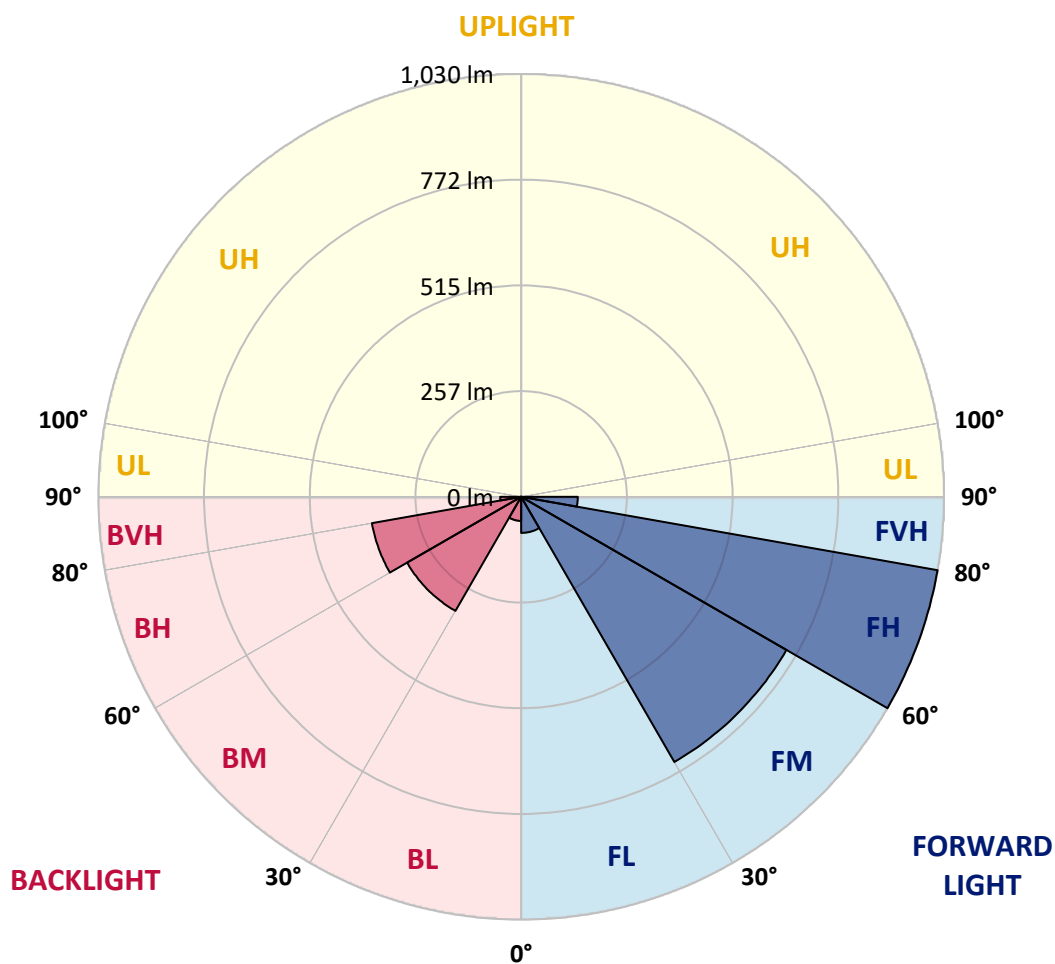
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	87.9	3.1			
FM	(30°-60°)	745.7	26.6			
FH	(60°-80°)	1029.6	36.8			G1/1800
FVH	(80°-90°)	137.8	4.9			G2/225
BL	(0°-30°)	58.6	2.1	B0/110		
BM	(30°-60°)	320.7	11.5	B1/1000		
BH	(60°-80°)	369.0	13.2	B1/500		G1/500
BVH	(80°-90°)	51.2	1.8			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°	43°	45°	55°	65°	75°	85°
0°	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6
2.5°	127.5	127.5	127.0	127.0	126.5	125.9	125.4	125.4	124.3	123.8	123.3
5°	134.5	134.5	134.5	133.4	132.3	131.8	131.8	130.2	128.6	127.0	125.4
7.5°	143.0	142.5	142.5	141.4	139.8	138.2	137.7	136.6	133.9	131.8	128.6
10°	152.6	152.6	152.6	150.5	148.9	147.3	146.2	144.1	140.9	137.1	133.9
12.5°	164.3	164.3	164.9	162.2	160.6	157.4	156.9	153.7	149.4	144.1	139.3
15°	177.7	179.8	178.2	178.2	172.9	171.3	170.2	166.5	160.6	153.7	147.3
17.5°	196.9	196.3	194.2	194.7	191.0	188.3	185.7	179.3	172.9	163.3	154.7
20°	218.8	217.7	215.0	214.0	211.8	207.0	206.0	197.4	187.3	177.1	165.9
22.5°	240.1	240.6	239.6	237.4	235.3	231.6	229.4	220.4	206.0	192.6	176.1
25°	261.4	263.6	263.6	265.2	261.4	256.6	255.0	244.4	228.4	208.1	190.5
27.5°	288.1	288.7	290.3	292.4	291.3	287.1	283.9	272.1	252.4	230.0	206.5
30°	314.8	316.9	318.0	322.3	323.3	320.1	316.9	303.6	283.3	254.0	224.1
32.5°	343.6	346.8	348.9	354.8	361.8	359.6	358.6	343.1	319.1	284.9	248.1
35°	376.2	376.7	383.6	397.0	402.8	403.9	401.2	390.6	361.2	320.7	274.8
37.5°	407.1	409.8	421.5	438.6	448.7	455.7	456.7	446.6	414.0	362.8	304.1
40°	441.3	442.9	462.1	480.2	507.4	518.6	516.0	505.3	470.1	411.4	338.8
42.5°	476.5	481.8	499.9	529.8	563.4	582.1	586.9	574.1	538.9	469.0	383.6
45°	510.6	519.2	538.9	577.8	628.0	650.4	655.2	661.6	628.5	541.0	443.4
47.5°	548.0	552.8	582.6	634.4	689.4	737.4	751.3	756.1	705.4	608.8	485.5
50°	586.9	588.0	629.6	700.0	785.9	841.4	842.5	867.0	802.5	694.7	537.3
52.5°	628.5	629.6	678.7	769.4	882.5	951.9	965.7	973.7	940.7	806.2	632.8
55°	669.6	672.3	733.1	863.3	1003.6	1076.7	1109.3	1143.9	1065.5	892.6	667.5
57.5°	712.8	718.2	807.3	965.7	1137.0	1246.4	1262.9	1268.3	1145.6	927.3	678.2
60°	752.3	764.1	884.6	1065.0	1249.6	1341.4	1343.5	1312.6	1176.0	947.6	678.7
62.5°	793.4	808.3	955.6	1160.0	1336.0	1386.2	1391.5	1341.9	1229.3	1015.4	725.6
65°	824.3	852.1	1009.0	1226.7	1370.2	1432.6	1442.2	1428.3	1313.1	1061.2	741.6
67.5°	856.4	900.1	1039.9	1254.4	1404.3	1449.1	1445.4	1404.9	1287.5	1031.4	701.1
70°	896.9	928.9	1063.9	1244.8	1355.2	1362.2	1362.2	1312.0	1206.4	971.6	651.5
72.5°	912.9	938.0	1037.2	1168.0	1235.2	1233.1	1223.4	1195.7	1095.9	879.8	577.8
75°	895.8	899.0	944.9	1024.4	1075.1	1080.5	1069.3	1030.3	951.9	763.0	494.6
77.5°	803.5	796.1	806.7	846.2	891.0	887.3	885.7	841.4	780.6	629.6	406.0
80°	632.8	637.1	637.6	645.1	672.3	681.9	671.8	638.1	597.1	489.8	314.3
82.5°	434.9	441.8	448.2	438.6	450.3	461.0	459.4	427.4	414.0	343.6	217.2
85°	234.2	250.8	254.5	259.8	286.0	298.8	294.0	270.0	251.3	212.4	131.3
87.5°	47.5	38.9	55.5	79.0	99.8	107.8	121.1	91.2	72.6	53.4	29.9
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°	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6
2.5°	122.7	122.2	121.7	120.6	119.5	119.0	118.5	117.9	117.9	117.9	117.9
5°	124.9	124.3	122.7	121.7	120.1	119.0	117.9	117.4	116.3	115.8	116.3
7.5°	127.5	126.5	123.8	121.7	120.1	118.5	117.4	116.8	116.3	115.2	115.2
10°	131.8	130.2	126.5	123.3	121.1	119.0	117.4	116.8	116.3	115.8	115.8
12.5°	137.7	134.5	130.2	126.5	122.7	120.1	119.0	117.9	117.4	117.4	117.4
15°	143.5	140.9	135.0	129.1	125.4	123.3	121.7	120.1	120.1	120.1	120.1
17.5°	151.5	146.7	139.8	133.4	129.1	125.9	124.9	123.8	123.8	124.3	124.3
20°	160.1	154.7	146.2	139.3	133.9	130.2	129.1	128.6	128.6	129.1	129.1
22.5°	169.7	163.3	152.6	144.6	139.3	136.6	134.5	134.5	134.5	135.0	135.5
25°	182.5	173.4	160.6	151.5	145.1	141.9	140.9	140.9	140.9	141.9	141.9
27.5°	195.8	186.2	169.7	158.5	152.1	148.9	147.3	147.8	148.3	148.9	148.9
30°	211.3	200.1	179.8	168.1	160.1	156.3	154.7	155.3	155.8	156.9	155.8
32.5°	230.5	216.6	193.7	178.2	169.1	165.4	164.3	164.9	164.9	164.9	165.4
35°	256.1	238.5	210.2	190.5	181.4	176.1	175.0	175.0	175.0	174.5	174.5
37.5°	281.2	258.8	226.8	207.0	195.3	188.9	185.7	185.7	185.7	185.7	185.7
40°	310.5	284.4	248.1	224.6	210.8	202.8	198.5	196.9	196.3	195.8	194.7
42.5°	348.4	318.5	272.6	243.8	227.3	218.8	212.4	209.2	207.0	206.5	204.9
45°	399.1	362.3	309.5	272.1	248.1	236.4	228.9	222.5	218.8	217.7	215.0
47.5°	436.5	393.8	335.1	296.7	271.6	256.6	245.4	236.9	231.6	228.9	227.3
50°	475.4	435.4	370.8	323.3	297.7	280.7	266.2	254.5	244.9	241.2	240.6
52.5°	560.8	507.4	419.9	361.2	324.4	305.2	290.3	276.4	261.4	255.0	256.6
55°	587.4	532.0	450.3	398.0	360.2	337.7	316.4	298.3	281.2	270.0	270.5
57.5°	590.6	534.1	456.7	410.3	384.7	366.6	347.9	322.8	302.0	286.5	286.0
60°	586.4	530.4	455.1	408.7	389.5	384.2	372.4	350.5	320.7	302.5	300.4
62.5°	620.0	560.2	472.2	414.6	390.6	388.4	384.7	371.9	341.5	318.0	314.3
65°	626.4	564.0	481.3	430.0	407.6	399.6	395.4	380.4	360.7	330.8	328.1
67.5°	590.1	534.1	456.7	410.8	397.0	399.6	400.7	389.5	367.6	344.1	338.8
70°	546.9	490.9	424.2	379.9	370.3	375.6	385.8	385.8	369.8	350.0	350.5
72.5°	482.3	437.0	376.2	344.1	334.5	341.5	353.2	362.3	358.0	351.1	351.6
75°	413.0	373.5	323.3	299.9	292.9	301.5	313.2	323.9	330.3	335.1	338.3
77.5°	339.9	310.5	268.4	246.0	246.0	254.0	265.2	274.8	285.5	297.7	299.9
80°	261.4	238.0	207.0	191.5	193.1	199.6	211.3	219.8	226.2	236.9	238.5
82.5°	184.6	170.7	144.6	133.4	136.1	144.6	149.9	155.8	160.6	163.3	166.5
85°	108.8	98.2	86.4	82.7	82.7	85.9	92.8	93.9	94.4	95.0	94.4
87.5°	27.2	29.9	25.6	25.1	25.1	27.2	26.1	28.3	28.3	29.3	27.2
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)