

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: P198174

Luminaire Tested: **TT-C2-LED-E1-T4-PM-MS/DIM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198174
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-T4-PM-MS/DIM
Description: TOPTIER LED AREA/SITE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3713.2 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

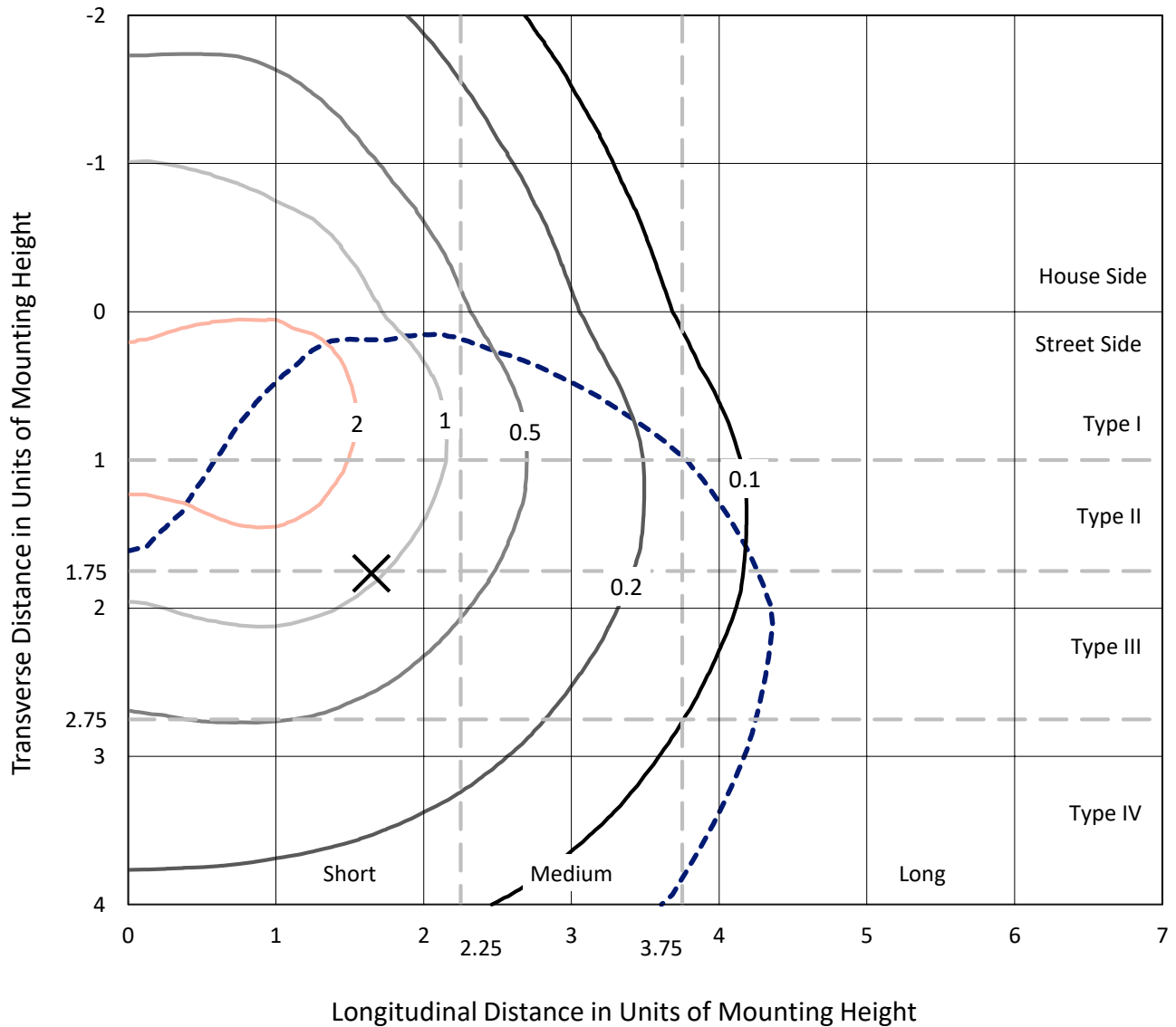
Input Watts (W): 41.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

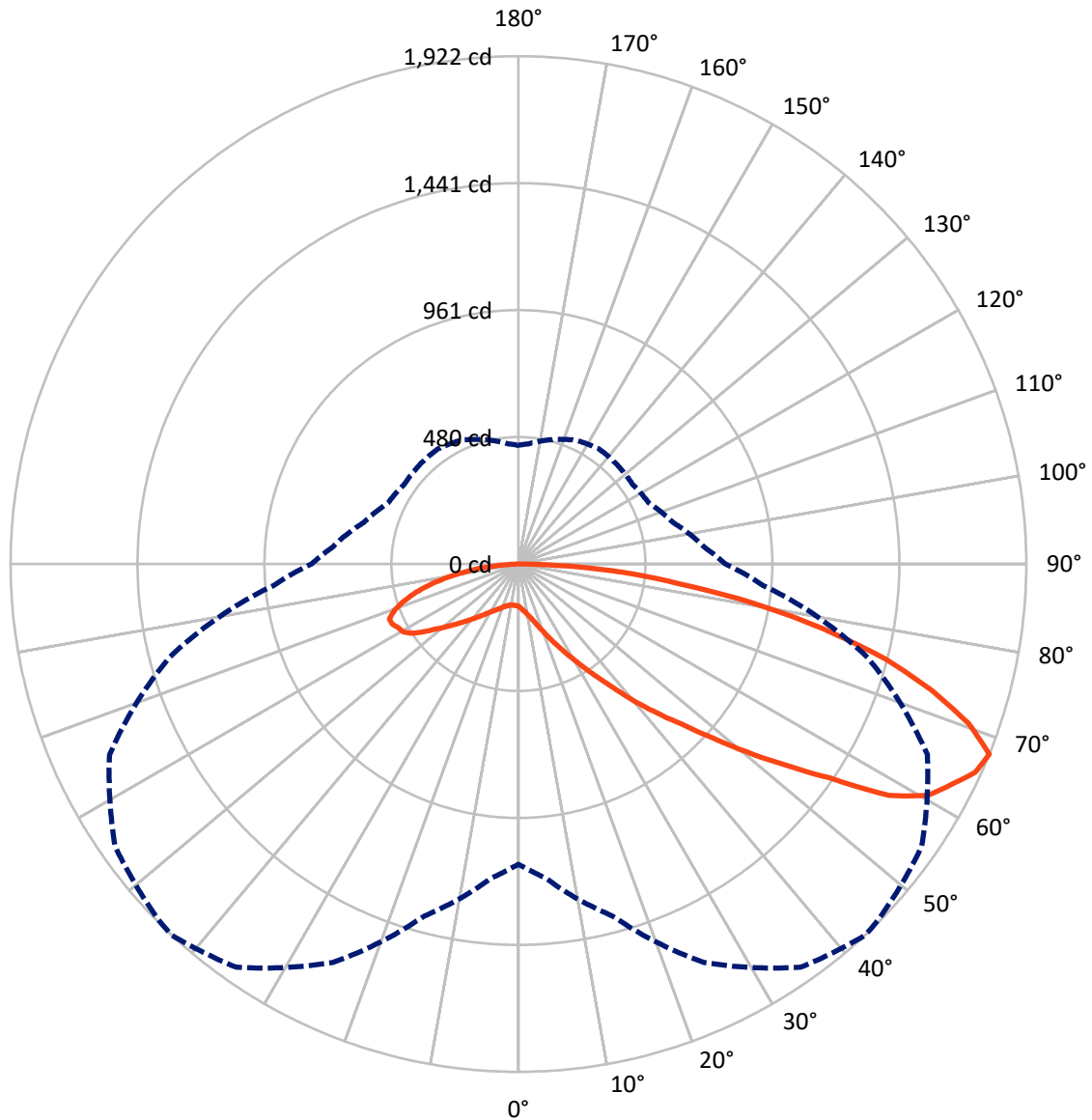
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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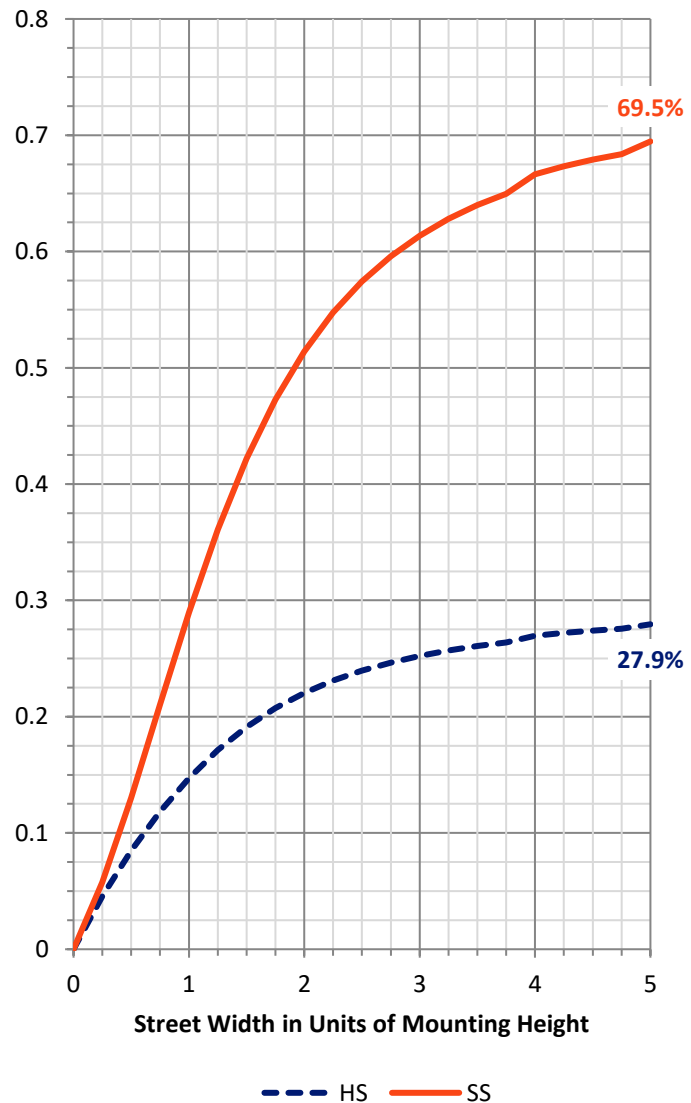
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1059.9	0.0	1059.9
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	2653.2	0.0	2653.2
	% Fixture	71.5	0.0	71.5
Total	Lumens	3713.2	0.0	3713.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	0.4
10°-20°	56.3	1.5
20°-30°	121.9	3.3
30°-40°	235.4	6.3
40°-50°	432.1	11.6
50°-60°	746.4	20.1
60°-70°	1009.2	27.2
70°-80°	845.2	22.8
80°-90°	250.6	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°	3713.2	100.0
0°-180°	3713.2	100.0



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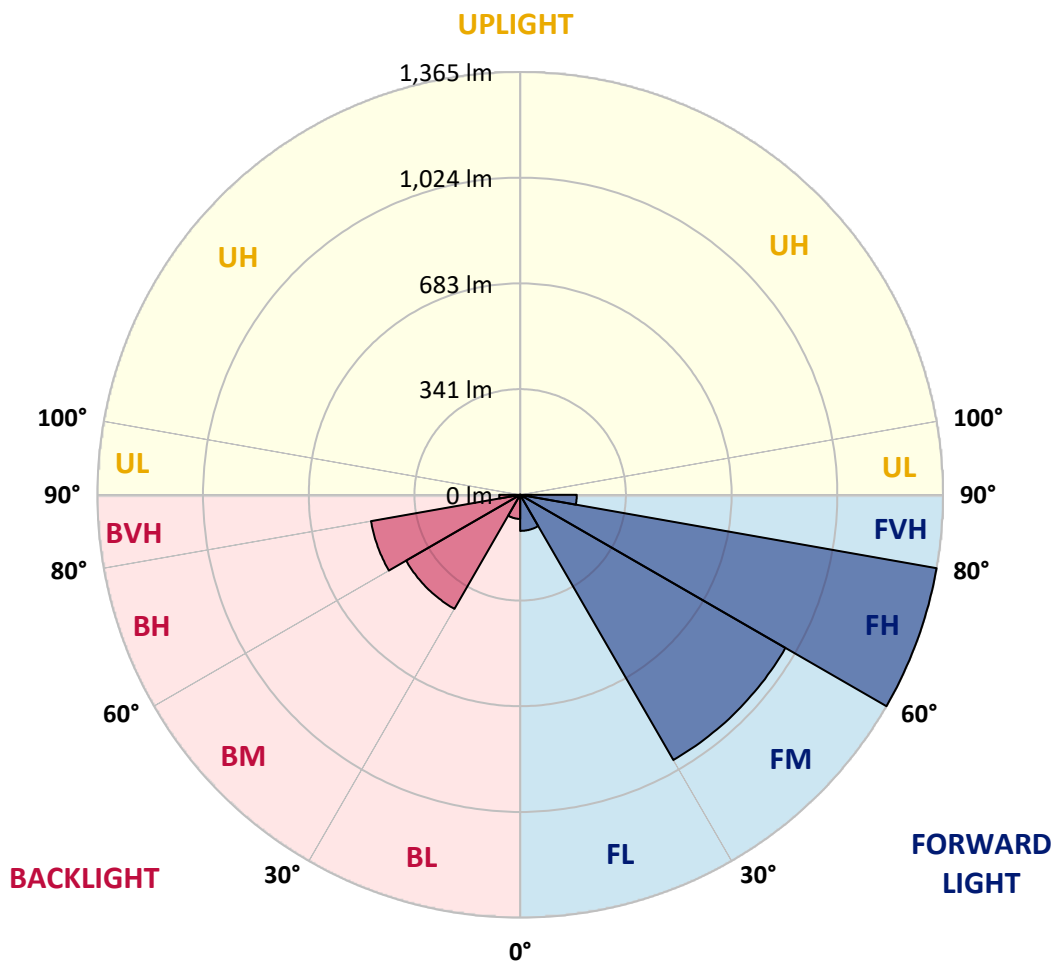
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	116.6	3.1			
FM	(30°-60°)	988.7	26.6			
FH	(60°-80°)	1365.2	36.8			G1/1800
FVH	(80°-90°)	182.7	4.9			G2/225
BL	(0°-30°)	77.7	2.1	B0/110		
BM	(30°-60°)	425.2	11.5	B1/1000		
BH	(60°-80°)	489.2	13.2	B1/500		G1/500
BVH	(80°-90°)	67.8	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°	159.9	159.9	159.9	159.9	159.9	159.9	159.9	159.9	159.9	159.9	159.9
2.5°	169.1	169.1	168.4	168.4	167.7	167.0	166.3	166.3	164.8	164.1	163.4
5°	178.3	178.3	178.3	176.9	175.5	174.7	174.7	172.6	170.5	168.4	166.3
7.5°	189.6	188.9	188.9	187.5	185.4	183.2	182.5	181.1	177.6	174.7	170.5
10°	202.3	202.3	202.3	199.5	197.4	195.3	193.8	191.0	186.8	181.8	177.6
12.5°	217.9	217.9	218.6	215.1	212.9	208.7	208.0	203.8	198.1	191.0	184.6
15°	235.6	238.4	236.3	236.3	229.2	227.1	225.7	220.7	212.9	203.8	195.3
17.5°	261.1	260.3	257.5	258.2	253.3	249.7	246.2	237.7	229.2	216.5	205.2
20°	290.1	288.6	285.1	283.7	280.9	274.5	273.1	261.8	248.3	234.9	220.0
22.5°	318.4	319.1	317.7	314.8	312.0	307.0	304.2	292.2	273.1	255.4	233.5
25°	346.7	349.5	349.5	351.6	346.7	340.3	338.2	324.0	302.8	275.9	252.6
27.5°	382.0	382.7	384.9	387.7	386.3	380.6	376.4	360.8	334.6	304.9	273.8
30°	417.4	420.2	421.7	427.3	428.7	424.5	420.2	402.6	375.7	336.8	297.1
32.5°	455.6	459.9	462.7	470.5	479.7	476.8	475.4	454.9	423.1	377.8	329.0
35°	498.8	499.5	508.7	526.4	534.1	535.6	532.0	517.9	479.0	425.2	364.3
37.5°	539.8	543.3	558.9	581.5	595.0	604.2	605.6	592.2	549.0	481.1	403.3
40°	585.1	587.2	612.7	636.7	672.8	687.7	684.1	670.0	623.3	545.5	449.2
42.5°	631.8	638.8	662.9	702.5	747.1	771.9	778.2	761.2	714.5	621.9	508.7
45°	677.0	688.4	714.5	766.2	832.7	862.4	868.8	877.3	833.4	717.4	587.9
47.5°	726.6	732.9	772.6	841.2	914.1	977.7	996.1	1002.5	935.3	807.2	643.8
50°	778.2	779.6	834.8	928.2	1042.1	1115.7	1117.1	1149.6	1064.0	921.1	712.4
52.5°	833.4	834.8	899.9	1020.2	1170.2	1262.1	1280.5	1291.1	1247.3	1069.0	839.1
55°	887.9	891.4	972.1	1144.7	1330.8	1427.7	1470.8	1516.8	1412.8	1183.6	885.0
57.5°	945.2	952.3	1070.4	1280.5	1507.6	1652.7	1674.6	1681.7	1518.9	1229.6	899.2
60°	997.5	1013.1	1173.0	1412.1	1656.9	1778.6	1781.4	1740.4	1559.3	1256.5	899.9
62.5°	1052.0	1071.8	1267.1	1538.0	1771.5	1838.0	1845.1	1779.3	1630.0	1346.3	962.2
65°	1093.0	1129.8	1337.8	1626.5	1816.8	1899.6	1912.3	1893.9	1741.1	1407.2	983.4
67.5°	1135.5	1193.5	1378.9	1663.3	1862.1	1921.5	1916.5	1862.8	1707.1	1367.5	929.6
70°	1189.3	1231.7	1410.7	1650.5	1797.0	1806.2	1806.2	1739.7	1599.6	1288.3	863.8
72.5°	1210.5	1243.7	1375.3	1548.7	1637.8	1635.0	1622.2	1585.4	1453.1	1166.6	766.2
75°	1187.8	1192.1	1252.9	1358.3	1425.6	1432.6	1417.8	1366.1	1262.1	1011.7	655.8
77.5°	1065.5	1055.5	1069.7	1122.0	1181.5	1176.5	1174.4	1115.7	1035.0	834.8	538.4
80°	839.1	844.7	845.4	855.3	891.4	904.1	890.7	846.1	791.7	649.5	416.7
82.5°	576.6	585.8	594.3	581.5	597.1	611.3	609.1	566.7	549.0	455.6	287.9
85°	310.6	332.5	337.5	344.5	379.2	396.2	389.8	358.0	333.2	281.6	174.0
87.5°	63.0	51.6	73.6	104.7	132.3	142.9	160.6	121.0	96.2	70.7	39.6
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°	159.9	159.9	159.9	159.9	159.9	159.9	159.9	159.9	159.9	159.9	159.9
2.5°	162.7	162.0	161.3	159.9	158.5	157.8	157.1	156.4	156.4	156.4	156.4
5°	165.5	164.8	162.7	161.3	159.2	157.8	156.4	155.6	154.2	153.5	154.2
7.5°	169.1	167.7	164.1	161.3	159.2	157.1	155.6	154.9	154.2	152.8	152.8
10°	174.7	172.6	167.7	163.4	160.6	157.8	155.6	154.9	154.2	153.5	153.5
12.5°	182.5	178.3	172.6	167.7	162.7	159.2	157.8	156.4	155.6	155.6	155.6
15°	190.3	186.8	179.0	171.2	166.3	163.4	161.3	159.2	159.2	159.2	159.2
17.5°	200.9	194.6	185.4	176.9	171.2	167.0	165.5	164.1	164.1	164.8	164.8
20°	212.2	205.2	193.8	184.6	177.6	172.6	171.2	170.5	170.5	171.2	171.2
22.5°	225.0	216.5	202.3	191.7	184.6	181.1	178.3	178.3	178.3	179.0	179.7
25°	242.0	229.9	212.9	200.9	192.4	188.2	186.8	186.8	186.8	188.2	188.2
27.5°	259.6	246.9	225.0	210.1	201.6	197.4	195.3	196.0	196.7	197.4	197.4
30°	280.2	265.3	238.4	222.9	212.2	207.3	205.2	205.9	206.6	208.0	206.6
32.5°	305.6	287.2	256.8	236.3	224.3	219.3	217.9	218.6	218.6	218.6	219.3
35°	339.6	316.2	278.7	252.6	240.5	233.5	232.1	232.1	232.1	231.3	231.3
37.5°	372.8	343.1	300.7	274.5	258.9	250.4	246.2	246.2	246.2	246.2	246.2
40°	411.7	377.1	329.0	297.8	279.5	268.8	263.2	261.1	260.3	259.6	258.2
42.5°	462.0	422.4	361.5	323.3	301.4	290.1	281.6	277.3	274.5	273.8	271.7
45°	529.2	480.4	410.3	360.8	329.0	313.4	303.5	295.0	290.1	288.6	285.1
47.5°	578.7	522.1	444.3	393.4	360.1	340.3	325.4	314.1	307.0	303.5	301.4
50°	630.4	577.3	491.7	428.7	394.8	372.1	353.0	337.5	324.7	319.8	319.1
52.5°	743.6	672.8	556.8	479.0	430.1	404.7	384.9	366.5	346.7	338.2	340.3
55°	778.9	705.3	597.1	527.8	477.5	447.8	419.5	395.5	372.8	358.0	358.7
57.5°	783.2	708.2	605.6	544.0	510.1	486.0	461.3	428.0	400.4	379.9	379.2
60°	777.5	703.2	603.5	541.9	516.5	509.4	493.8	464.8	425.2	401.1	398.3
62.5°	822.1	742.8	626.1	549.7	517.9	515.0	510.1	493.1	452.8	421.7	416.7
65°	830.6	747.8	638.1	570.2	540.5	529.9	524.2	504.4	478.3	438.6	435.1
67.5°	782.5	708.2	605.6	544.8	526.4	529.9	531.3	516.5	487.4	456.3	449.2
70°	725.2	650.9	562.4	503.7	491.0	498.1	511.5	511.5	490.3	464.1	464.8
72.5°	639.6	579.4	498.8	456.3	443.6	452.8	468.3	480.4	474.7	465.5	466.2
75°	547.6	495.2	428.7	397.6	388.4	399.7	415.3	429.4	437.9	444.3	448.5
77.5°	450.7	411.7	355.9	326.1	326.1	336.8	351.6	364.3	378.5	394.8	397.6
80°	346.7	315.5	274.5	254.0	256.1	264.6	280.2	291.5	300.0	314.1	316.2
82.5°	244.8	226.4	191.7	176.9	180.4	191.7	198.8	206.6	212.9	216.5	220.7
85°	144.3	130.2	114.6	109.7	109.7	113.9	123.1	124.5	125.2	125.9	125.2
87.5°	36.1	39.6	34.0	33.3	33.3	36.1	34.7	37.5	37.5	38.9	36.1
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)