

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: P198175

Luminaire Tested: **TT-C2-LED-E1-T4-PM-MS/DIM-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198175  
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-7050  
Description: TOPTIER LED AREA/SITE LUMINAIRE  
DRIVE LANE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR  
Light Source: (160) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

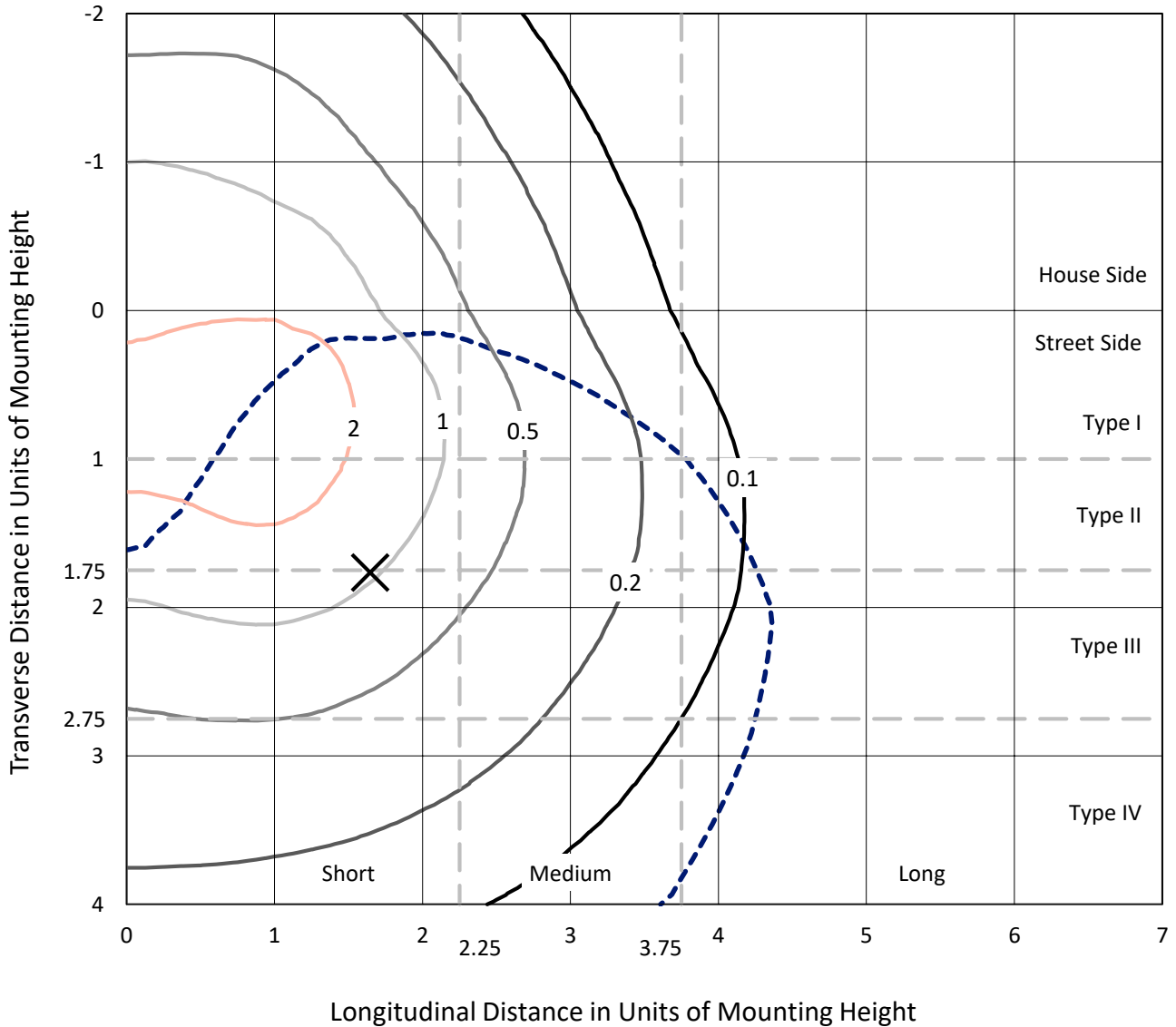
Lumens per Lamp: N/A  
Luminaire Lumens: 3678 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 41.4  
Input Voltage (V): NR  
Input Current (Ain): 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

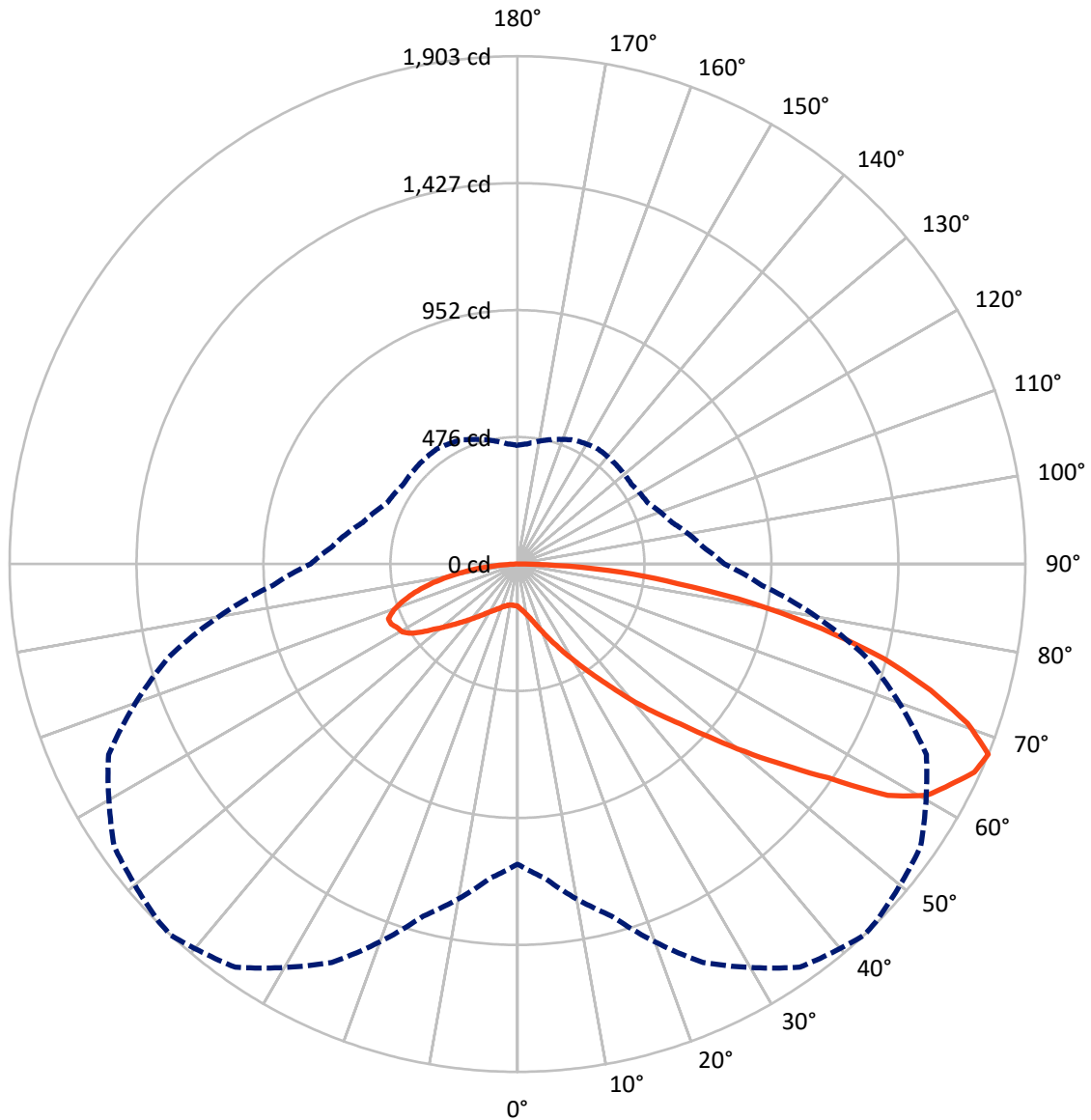
✕ Max cd  
 - - - 1/2 Max cd



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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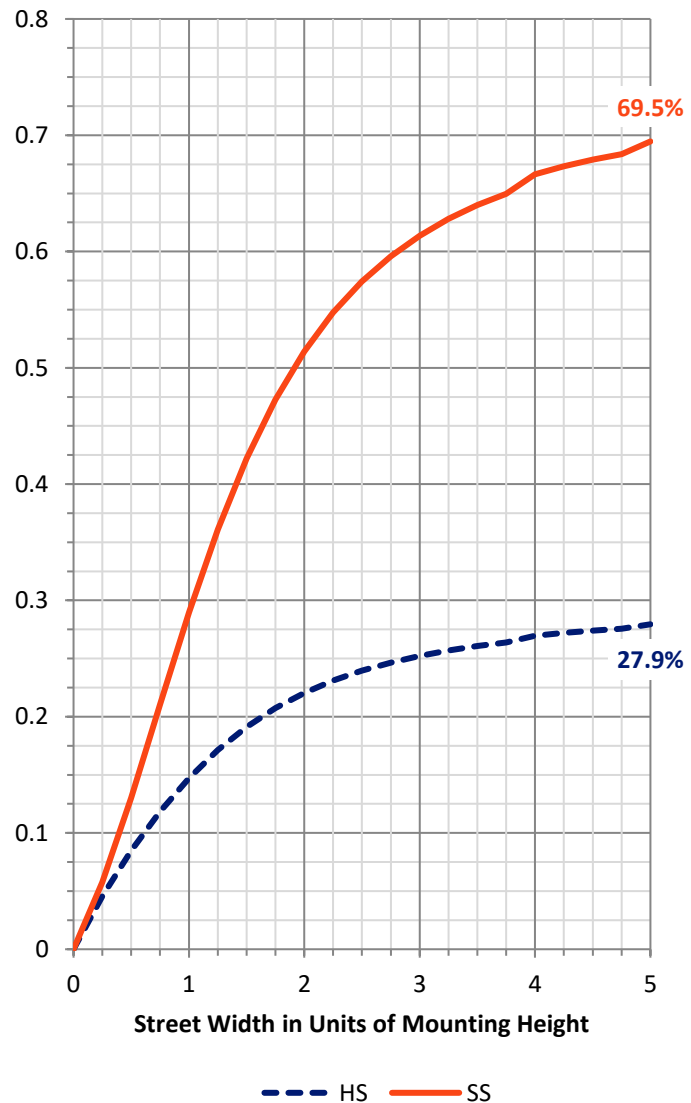
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1049.9	0.0	1049.9
	% Fixture	28.5	0.0	28.5
<b>Street Side</b>	Lumens	2628.1	0.0	2628.1
	% Fixture	71.5	0.0	71.5
<b>Total</b>	Lumens	3678.0	0.0	3678.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.0	0.4
10°-20°	55.7	1.5
20°-30°	120.7	3.3
30°-40°	233.2	6.3
40°-50°	428.0	11.6
50°-60°	739.3	20.1
60°-70°	999.7	27.2
70°-80°	837.2	22.8
80°-90°	248.2	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°	3678.0	100.0
0°-180°	3678.0	100.0



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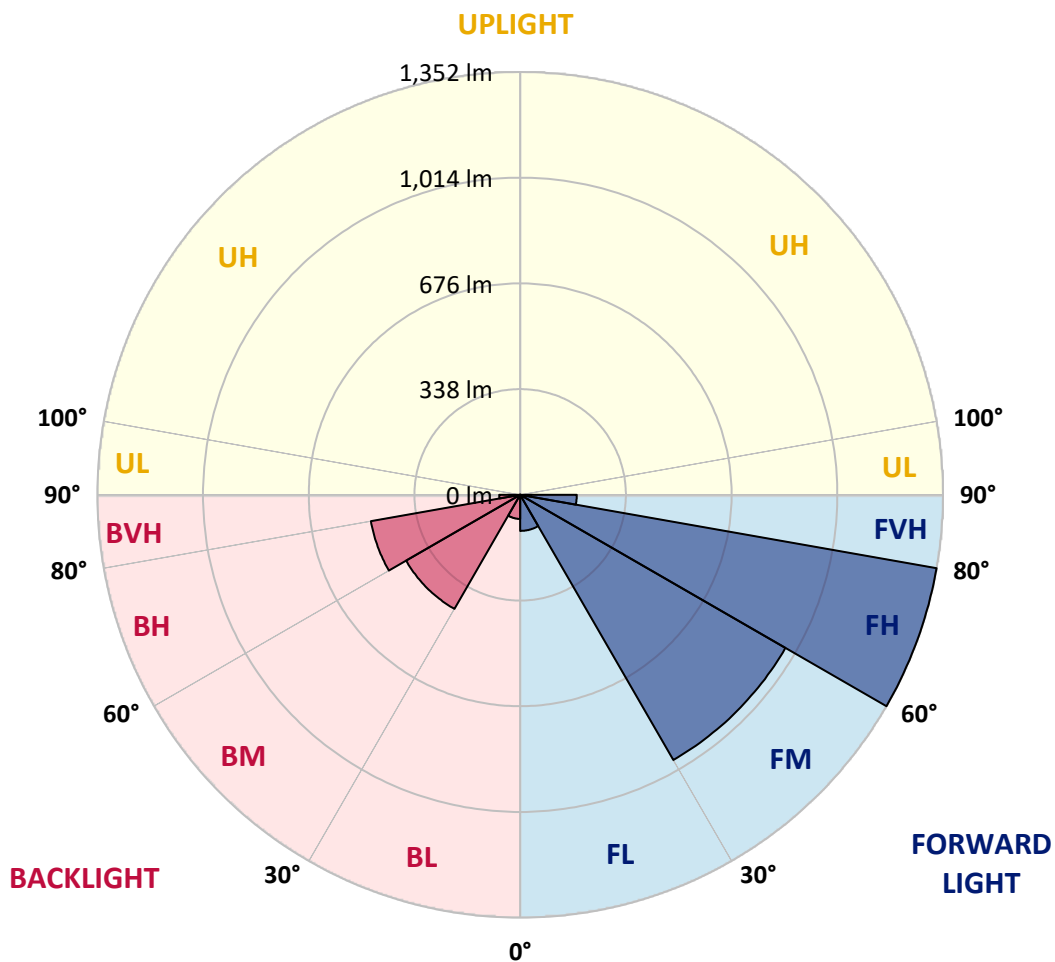
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	115.5	3.1			
FM	(30°-60°)	979.3	26.6			
FH	(60°-80°)	1352.3	36.8			G1/1800
FVH	(80°-90°)	181.0	4.9			G2/225
BL	(0°-30°)	77.0	2.1	B0/110		
BM	(30°-60°)	421.1	11.5	B1/1000		
BH	(60°-80°)	484.6	13.2	B1/500		G1/500
BVH	(80°-90°)	67.2	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°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4
2.5°	167.5	167.5	166.8	166.8	166.1	165.4	164.7	164.7	163.3	162.6	161.9
5°	176.6	176.6	176.6	175.2	173.8	173.1	173.1	171.0	168.9	166.8	164.7
7.5°	187.8	187.1	187.1	185.7	183.6	181.5	180.8	179.4	175.9	173.1	168.9
10°	200.4	200.4	200.4	197.6	195.5	193.4	192.0	189.2	185.0	180.1	175.9
12.5°	215.8	215.8	216.5	213.0	210.9	206.7	206.0	201.8	196.2	189.2	182.9
15°	233.4	236.2	234.1	234.1	227.1	224.9	223.5	218.6	210.9	201.8	193.4
17.5°	258.6	257.9	255.1	255.8	250.9	247.4	243.9	235.5	227.1	214.4	203.2
20°	287.3	285.9	282.4	281.0	278.2	271.9	270.5	259.3	246.0	232.7	217.9
22.5°	315.3	316.1	314.6	311.8	309.0	304.1	301.3	289.4	270.5	253.0	231.3
25°	343.4	346.2	346.2	348.3	343.4	337.1	335.0	321.0	299.9	273.3	250.2
27.5°	378.4	379.1	381.2	384.0	382.6	377.0	372.8	357.4	331.5	302.0	271.2
30°	413.5	416.3	417.7	423.3	424.7	420.5	416.3	398.7	372.1	333.6	294.3
32.5°	451.3	455.5	458.3	466.0	475.1	472.3	470.9	450.6	419.1	374.2	325.9
35°	494.0	494.7	503.9	521.4	529.1	530.5	527.0	513.0	474.4	421.2	360.9
37.5°	534.7	538.2	553.6	576.0	589.4	598.5	599.9	586.6	543.8	476.5	399.4
40°	579.5	581.6	606.9	630.7	666.4	681.2	677.7	663.6	617.4	540.3	445.0
42.5°	625.8	632.8	656.6	695.9	740.0	764.5	770.9	754.0	707.8	616.0	503.9
45°	670.6	681.9	707.8	758.9	824.8	854.2	860.6	869.0	825.5	710.6	582.3
47.5°	719.7	726.0	765.2	833.2	905.4	968.5	986.7	993.0	926.4	799.6	637.7
50°	770.9	772.3	826.9	919.4	1032.2	1105.1	1106.5	1138.8	1054.0	912.4	705.7
52.5°	825.5	826.9	891.4	1010.5	1159.1	1250.2	1268.4	1278.9	1235.5	1058.9	831.1
55°	879.5	883.0	962.9	1133.9	1318.2	1414.2	1456.9	1502.5	1399.5	1172.4	876.7
57.5°	936.2	943.2	1060.3	1268.4	1493.4	1637.0	1658.7	1665.7	1504.6	1217.9	890.7
60°	988.1	1003.5	1161.9	1398.8	1641.2	1761.8	1764.6	1723.9	1544.5	1244.6	891.4
62.5°	1042.1	1061.7	1255.1	1523.5	1754.7	1820.6	1827.6	1762.5	1614.6	1333.6	953.1
65°	1082.7	1119.1	1325.2	1611.1	1799.6	1881.6	1894.2	1876.0	1724.6	1393.8	974.1
67.5°	1124.7	1182.2	1365.8	1647.5	1844.4	1903.3	1898.4	1845.1	1691.0	1354.6	920.8
70°	1178.0	1220.1	1397.3	1634.9	1780.0	1789.1	1789.1	1723.2	1584.5	1276.1	855.6
72.5°	1199.0	1232.0	1362.3	1534.0	1622.3	1619.5	1606.9	1570.4	1439.4	1155.6	758.9
75°	1176.6	1180.8	1241.1	1345.5	1412.1	1419.1	1404.4	1353.2	1250.2	1002.1	649.6
77.5°	1055.4	1045.6	1059.6	1111.4	1170.3	1165.4	1163.3	1105.1	1025.2	826.9	533.3
80°	831.1	836.7	837.4	847.2	883.0	895.6	882.3	838.1	784.2	643.3	412.8
82.5°	571.1	580.2	588.7	576.0	591.5	605.5	603.4	561.3	543.8	451.3	285.2
85°	307.6	329.4	334.3	341.3	375.6	392.4	386.1	354.6	330.1	278.9	172.4
87.5°	62.4	51.2	72.9	103.7	131.0	141.6	159.1	119.8	95.3	70.1	39.2
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°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4
2.5°	161.2	160.5	159.8	158.4	157.0	156.3	155.6	154.9	154.9	154.9	154.9
5°	164.0	163.3	161.2	159.8	157.7	156.3	154.9	154.2	152.8	152.1	152.8
7.5°	167.5	166.1	162.6	159.8	157.7	155.6	154.2	153.5	152.8	151.4	151.4
10°	173.1	171.0	166.1	161.9	159.1	156.3	154.2	153.5	152.8	152.1	152.1
12.5°	180.8	176.6	171.0	166.1	161.2	157.7	156.3	154.9	154.2	154.2	154.2
15°	188.5	185.0	177.3	169.6	164.7	161.9	159.8	157.7	157.7	157.7	157.7
17.5°	199.0	192.7	183.6	175.2	169.6	165.4	164.0	162.6	162.6	163.3	163.3
20°	210.2	203.2	192.0	182.9	175.9	171.0	169.6	168.9	168.9	169.6	169.6
22.5°	222.8	214.4	200.4	189.9	182.9	179.4	176.6	176.6	176.6	177.3	178.0
25°	239.7	227.8	210.9	199.0	190.6	186.4	185.0	185.0	185.0	186.4	186.4
27.5°	257.2	244.6	222.8	208.1	199.7	195.5	193.4	194.1	194.8	195.5	195.5
30°	277.5	262.8	236.2	220.7	210.2	205.3	203.2	203.9	204.6	206.0	204.6
32.5°	302.7	284.5	254.4	234.1	222.1	217.2	215.8	216.5	216.5	216.5	217.2
35°	336.4	313.2	276.1	250.2	238.3	231.3	229.9	229.9	229.9	229.2	229.2
37.5°	369.3	339.9	297.8	271.9	256.5	248.1	243.9	243.9	243.9	243.9	243.9
40°	407.9	373.5	325.9	295.0	276.8	266.3	260.7	258.6	257.9	257.2	255.8
42.5°	457.6	418.4	358.1	320.3	298.5	287.3	278.9	274.7	271.9	271.2	269.1
45°	524.2	475.8	406.5	357.4	325.9	310.4	300.6	292.2	287.3	285.9	282.4
47.5°	573.2	517.2	440.1	389.6	356.7	337.1	322.4	311.1	304.1	300.6	298.5
50°	624.4	571.8	487.0	424.7	391.0	368.6	349.7	334.3	321.7	316.8	316.1
52.5°	736.5	666.4	551.5	474.4	426.1	400.8	381.2	363.0	343.4	335.0	337.1
55°	771.6	698.7	591.5	522.8	473.0	443.6	415.6	391.7	369.3	354.6	355.3
57.5°	775.8	701.5	599.9	538.9	505.3	481.4	456.9	424.0	396.6	376.3	375.6
60°	770.2	696.6	597.8	536.8	511.6	504.6	489.1	460.4	421.2	397.3	394.5
62.5°	814.3	735.8	620.2	544.5	513.0	510.2	505.3	488.4	448.5	417.7	412.8
65°	822.7	740.7	632.1	564.8	535.4	524.9	519.3	499.7	473.7	434.5	431.0
67.5°	775.1	701.5	599.9	539.6	521.4	524.9	526.3	511.6	482.8	452.0	445.0
70°	718.3	644.7	557.1	499.0	486.3	493.3	506.7	506.7	485.6	459.7	460.4
72.5°	633.5	573.9	494.0	452.0	439.4	448.5	463.9	475.8	470.2	461.1	461.8
75°	542.4	490.5	424.7	393.8	384.7	395.9	411.4	425.4	433.8	440.1	444.3
77.5°	446.4	407.9	352.5	323.1	323.1	333.6	348.3	360.9	374.9	391.0	393.8
80°	343.4	312.5	271.9	251.6	253.7	262.1	277.5	288.7	297.1	311.1	313.2
82.5°	242.5	224.2	189.9	175.2	178.7	189.9	196.9	204.6	210.9	214.4	218.6
85°	143.0	128.9	113.5	108.6	108.6	112.8	121.9	123.3	124.0	124.7	124.0
87.5°	35.7	39.2	33.6	32.9	32.9	35.7	34.3	37.1	37.1	38.5	35.7
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)