

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: P198170

Luminaire Tested: **TT-C1-LED-E1-DL-MS/DIM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198170
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-C1-LED-E1-DL-MS/DIM
Description: TOPTIER LED PARKING GARAGE 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: 3084.2 lumens
Efficiency: N/A
Efficacy: 92.1 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): 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



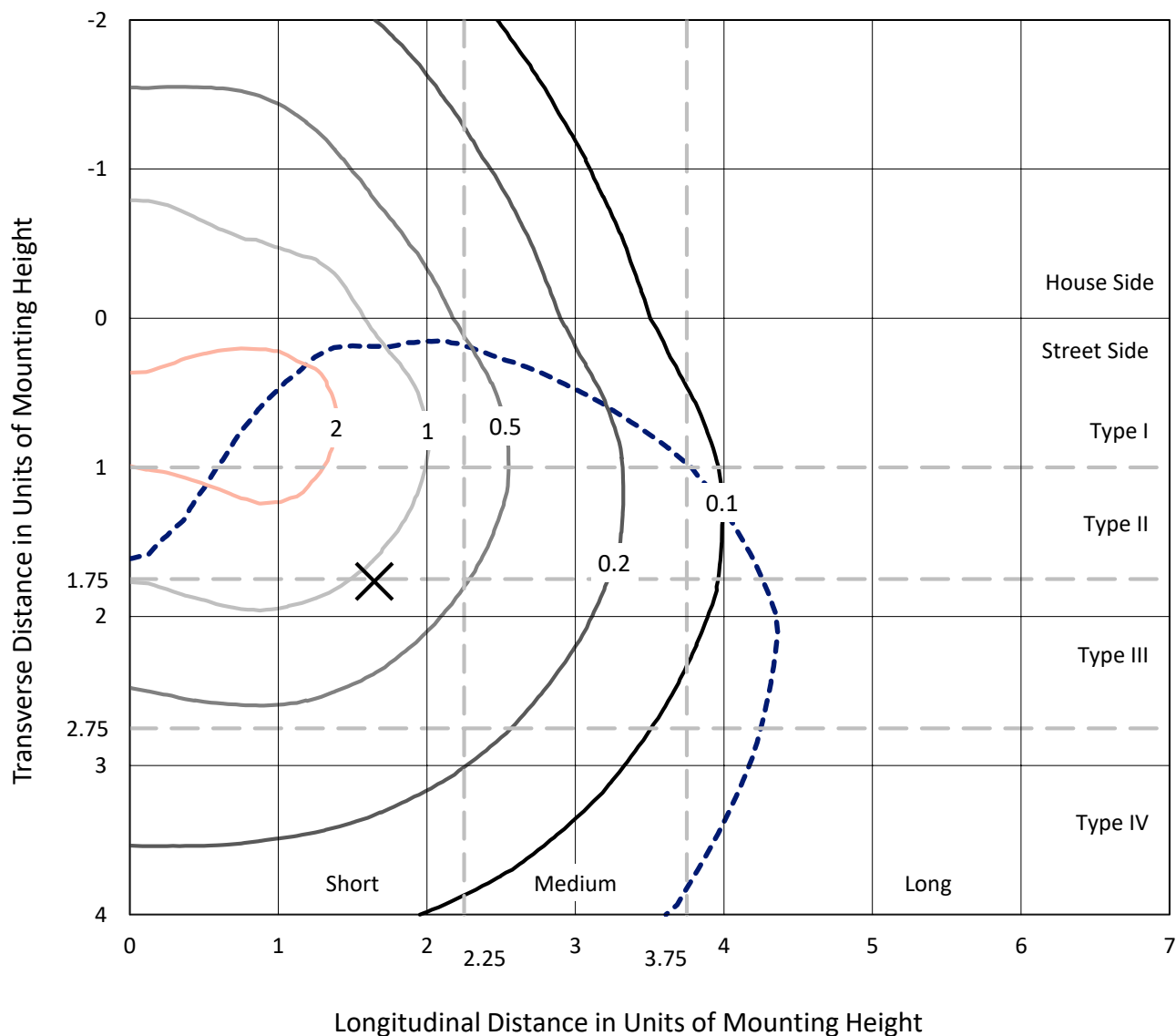
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

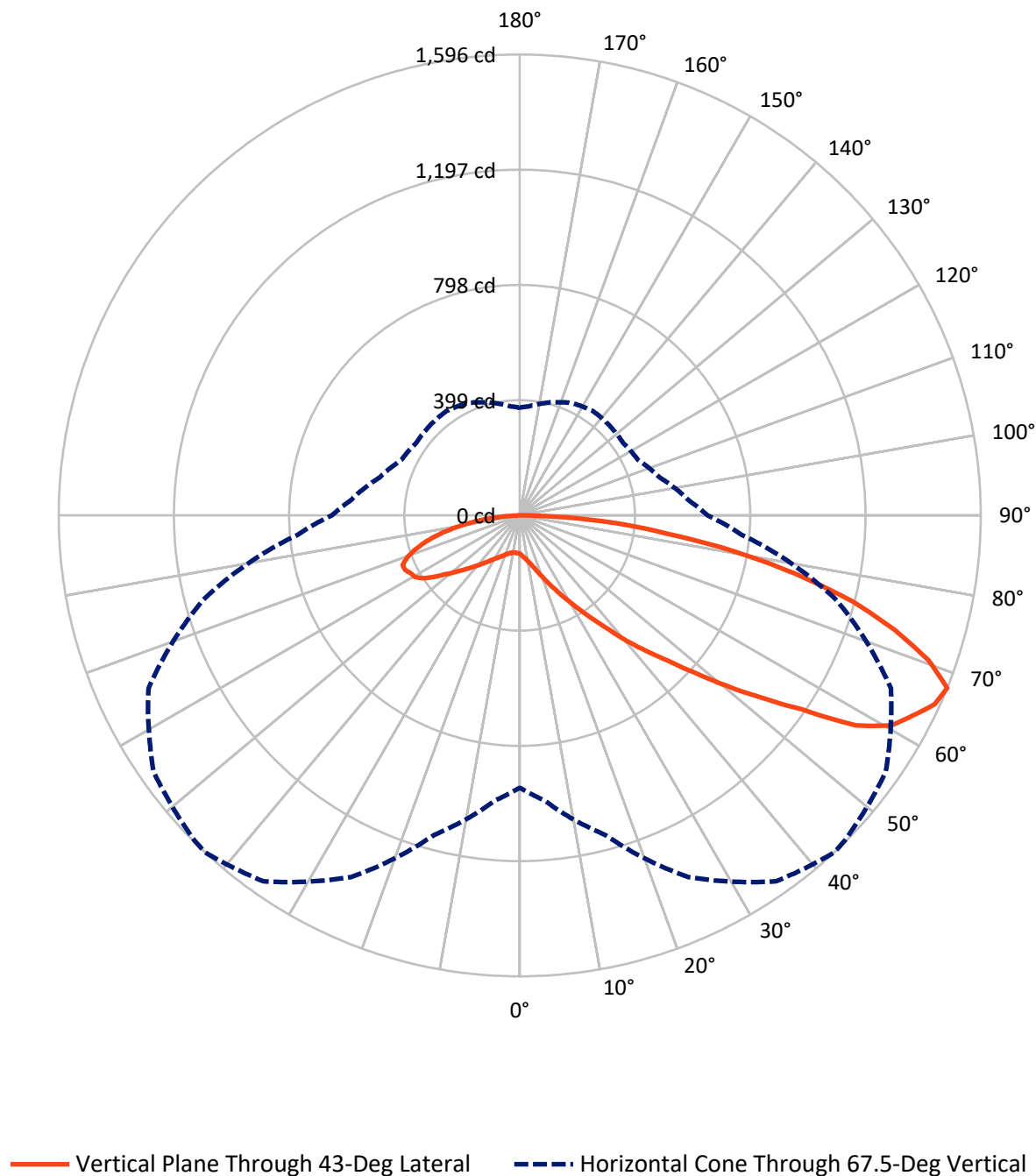


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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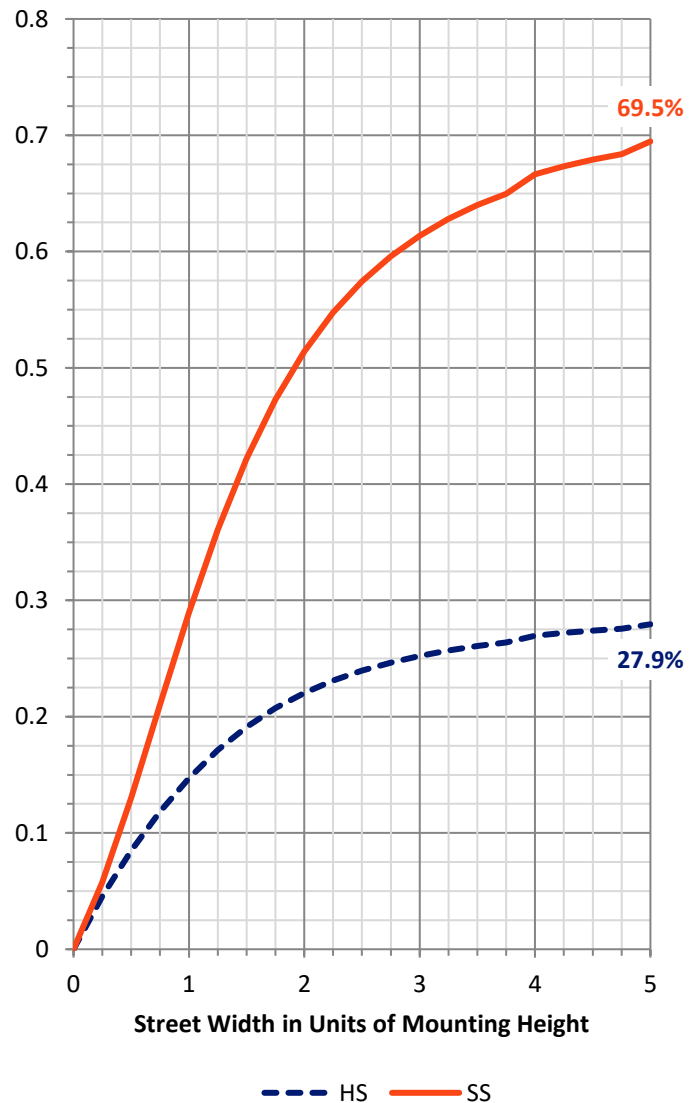
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	880.4	0.0	880.4
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	2203.8	0.0	2203.8
	% Fixture	71.5	0.0	71.5
Total	Lumens	3084.2	0.0	3084.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.4	0.4
10°-20°	46.7	1.5
20°-30°	101.2	3.3
30°-40°	195.5	6.3
40°-50°	358.9	11.6
50°-60°	619.9	20.1
60°-70°	838.3	27.2
70°-80°	702.0	22.8
80°-90°	208.1	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°	3084.2	100.0
0°-180°	3084.2	100.0

Coefficient of Utilization



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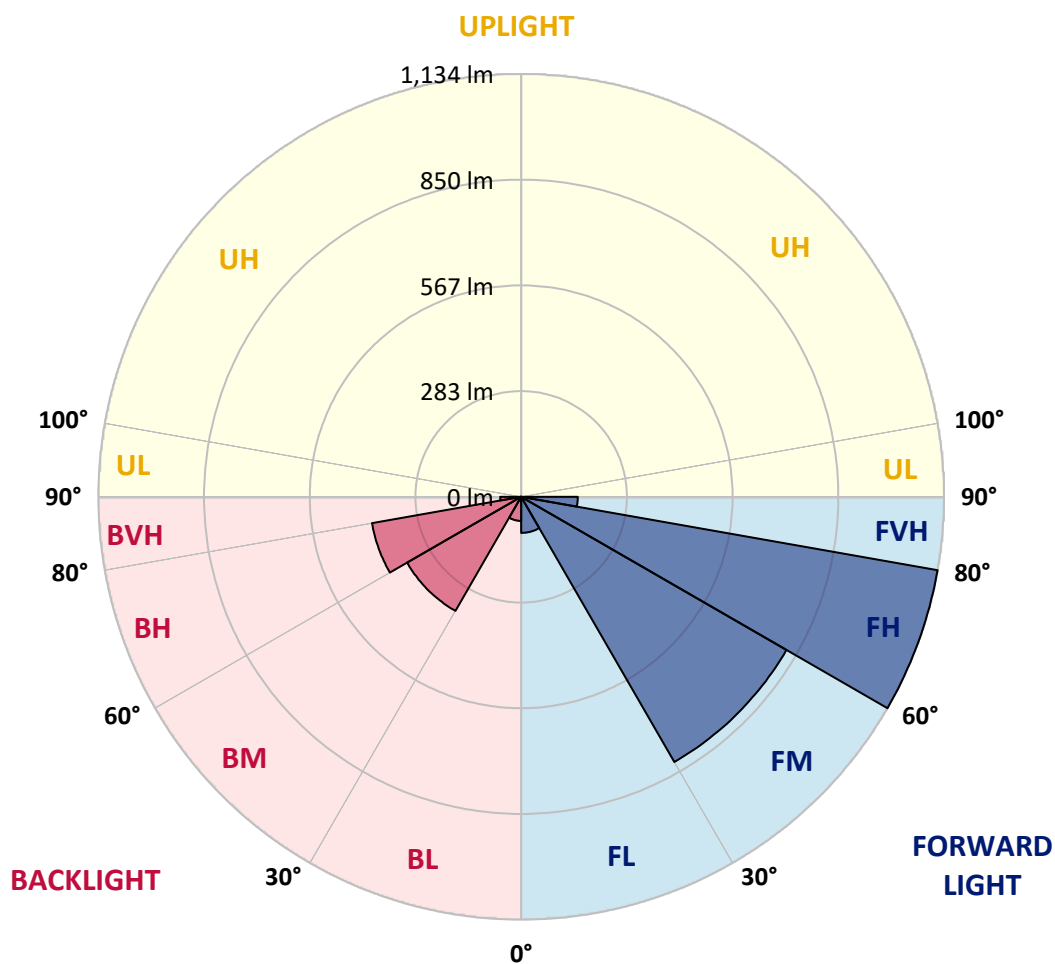
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	96.8	3.1			
FM	(30°-60°)	821.2	26.6			
FH	(60°-80°)	1134.0	36.8			G1/1800
FVH	(80°-90°)	151.8	4.9			G2/225
BL	(0°-30°)	64.6	2.1	B0/110		
BM	(30°-60°)	353.1	11.5	B1/1000		
BH	(60°-80°)	406.3	13.2	B1/500		G1/500
BVH	(80°-90°)	56.3	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°	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8
2.5°	140.4	140.4	139.9	139.9	139.3	138.7	138.1	138.1	136.9	136.3	135.7
5°	148.1	148.1	148.1	146.9	145.7	145.1	145.1	143.4	141.6	139.9	138.1
7.5°	157.5	156.9	156.9	155.7	154.0	152.2	151.6	150.4	147.5	145.1	141.6
10°	168.1	168.1	168.1	165.7	163.9	162.2	161.0	158.7	155.1	151.0	147.5
12.5°	181.0	181.0	181.6	178.6	176.9	173.4	172.8	169.2	164.5	158.7	153.4
15°	195.7	198.0	196.3	196.3	190.4	188.6	187.5	183.3	176.9	169.2	162.2
17.5°	216.8	216.2	213.9	214.5	210.4	207.4	204.5	197.4	190.4	179.8	170.4
20°	240.9	239.8	236.8	235.6	233.3	228.0	226.8	217.4	206.3	195.1	182.8
22.5°	264.4	265.0	263.8	261.5	259.1	255.0	252.7	242.7	226.8	212.1	193.9
25°	287.9	290.3	290.3	292.1	287.9	282.7	280.9	269.1	251.5	229.2	209.8
27.5°	317.3	317.9	319.7	322.0	320.8	316.1	312.6	299.7	277.9	253.3	227.4
30°	346.7	349.1	350.2	354.9	356.1	352.6	349.1	334.4	312.0	279.7	246.8
32.5°	378.4	382.0	384.3	390.8	398.4	396.1	394.9	377.8	351.4	313.8	273.2
35°	414.3	414.9	422.5	437.2	443.7	444.8	441.9	430.1	397.8	353.2	302.6
37.5°	448.4	451.3	464.2	483.0	494.2	501.8	503.0	491.8	456.0	399.6	334.9
40°	486.0	487.7	508.9	528.9	558.8	571.2	568.2	556.5	517.7	453.1	373.1
42.5°	524.8	530.6	550.6	583.5	620.5	641.1	646.4	632.3	593.5	516.5	422.5
45°	562.4	571.8	593.5	636.4	691.6	716.3	721.6	728.7	692.2	595.9	488.3
47.5°	603.5	608.8	641.7	698.7	759.2	812.1	827.4	832.7	776.8	670.5	534.7
50°	646.4	647.6	693.4	771.0	865.6	926.7	927.9	954.9	883.8	765.1	591.7
52.5°	692.2	693.4	747.5	847.4	971.9	1048.3	1063.6	1072.4	1036.0	887.9	696.9
55°	737.5	740.4	807.4	950.8	1105.3	1185.8	1221.7	1259.9	1173.5	983.1	735.1
57.5°	785.1	791.0	889.1	1063.6	1252.2	1372.7	1390.9	1396.8	1261.6	1021.3	746.9
60°	828.6	841.5	974.3	1172.9	1376.2	1477.3	1479.7	1445.6	1295.1	1043.6	747.5
62.5°	873.8	890.3	1052.4	1277.5	1471.4	1526.7	1532.5	1477.9	1353.9	1118.3	799.2
65°	907.9	938.4	1111.2	1351.0	1509.0	1577.8	1588.4	1573.1	1446.2	1168.8	816.8
67.5°	943.1	991.3	1145.3	1381.5	1546.6	1596.0	1591.9	1547.2	1418.0	1135.9	772.1
70°	987.8	1023.1	1171.7	1370.9	1492.6	1500.2	1500.2	1445.0	1328.6	1070.1	717.5
72.5°	1005.4	1033.1	1142.4	1286.3	1360.4	1358.0	1347.4	1316.9	1207.0	969.0	636.4
75°	986.6	990.2	1040.7	1128.3	1184.1	1190.0	1177.6	1134.7	1048.3	840.3	544.7
77.5°	885.0	876.7	888.5	932.0	981.3	977.2	975.5	926.7	859.7	693.4	447.2
80°	696.9	701.6	702.2	710.4	740.4	751.0	739.8	702.8	657.6	539.4	346.1
82.5°	478.9	486.6	493.6	483.0	496.0	507.7	505.9	470.7	456.0	378.4	239.2
85°	258.0	276.2	280.3	286.2	315.0	329.1	323.8	297.3	276.8	233.9	144.6
87.5°	52.3	42.9	61.1	87.0	109.9	118.7	133.4	100.5	79.9	58.8	32.9
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°	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8
2.5°	135.2	134.6	134.0	132.8	131.6	131.0	130.5	129.9	129.9	129.9	129.9
5°	137.5	136.9	135.2	134.0	132.2	131.0	129.9	129.3	128.1	127.5	128.1
7.5°	140.4	139.3	136.3	134.0	132.2	130.5	129.3	128.7	128.1	126.9	126.9
10°	145.1	143.4	139.3	135.7	133.4	131.0	129.3	128.7	128.1	127.5	127.5
12.5°	151.6	148.1	143.4	139.3	135.2	132.2	131.0	129.9	129.3	129.3	129.3
15°	158.1	155.1	148.7	142.2	138.1	135.7	134.0	132.2	132.2	132.2	132.2
17.5°	166.9	161.6	154.0	146.9	142.2	138.7	137.5	136.3	136.3	136.9	136.9
20°	176.3	170.4	161.0	153.4	147.5	143.4	142.2	141.6	141.6	142.2	142.2
22.5°	186.9	179.8	168.1	159.2	153.4	150.4	148.1	148.1	148.1	148.7	149.3
25°	201.0	191.0	176.9	166.9	159.8	156.3	155.1	155.1	155.1	156.3	156.3
27.5°	215.7	205.1	186.9	174.5	167.5	163.9	162.2	162.8	163.4	163.9	163.9
30°	232.7	220.4	198.0	185.1	176.3	172.2	170.4	171.0	171.6	172.8	171.6
32.5°	253.9	238.6	213.3	196.3	186.3	182.2	181.0	181.6	181.6	181.6	182.2
35°	282.1	262.7	231.5	209.8	199.8	193.9	192.7	192.7	192.7	192.2	192.2
37.5°	309.7	285.0	249.7	228.0	215.1	208.0	204.5	204.5	204.5	204.5	204.5
40°	342.0	313.2	273.2	247.4	232.1	223.3	218.6	216.8	216.2	215.7	214.5
42.5°	383.7	350.8	300.3	268.5	250.3	240.9	233.9	230.4	228.0	227.4	225.7
45°	439.5	399.0	340.8	299.7	273.2	260.3	252.1	245.0	240.9	239.8	236.8
47.5°	480.7	433.7	369.0	326.7	299.1	282.7	270.3	260.9	255.0	252.1	250.3
50°	523.6	479.5	408.4	356.1	327.9	309.1	293.2	280.3	269.7	265.6	265.0
52.5°	617.6	558.8	462.5	397.8	357.3	336.1	319.7	304.4	287.9	280.9	282.7
55°	647.0	585.9	496.0	438.4	396.7	372.0	348.5	328.5	309.7	297.3	297.9
57.5°	650.5	588.2	503.0	451.9	423.7	403.7	383.1	355.5	332.6	315.6	315.0
60°	645.8	584.1	501.2	450.1	429.0	423.1	410.2	386.1	353.2	333.2	330.8
62.5°	682.8	617.0	520.1	456.6	430.1	427.8	423.7	409.6	376.1	350.2	346.1
65°	689.9	621.1	530.0	473.6	448.9	440.1	435.4	419.0	397.2	364.3	361.4
67.5°	649.9	588.2	503.0	452.5	437.2	440.1	441.3	429.0	404.9	379.0	373.1
70°	602.3	540.6	467.2	418.4	407.8	413.7	424.9	424.9	407.2	385.5	386.1
72.5°	531.2	481.3	414.3	379.0	368.4	376.1	389.0	399.0	394.3	386.7	387.2
75°	454.8	411.3	356.1	330.2	322.6	332.0	344.9	356.7	363.7	369.0	372.6
77.5°	374.3	342.0	295.6	270.9	270.9	279.7	292.1	302.6	314.4	327.9	330.2
80°	287.9	262.1	228.0	211.0	212.7	219.8	232.7	242.1	249.2	260.9	262.7
82.5°	203.3	188.0	159.2	146.9	149.8	159.2	165.1	171.6	176.9	179.8	183.3
85°	119.9	108.1	95.2	91.1	91.1	94.6	102.2	103.4	104.0	104.6	104.0
87.5°	30.0	32.9	28.2	27.6	27.6	30.0	28.8	31.1	31.1	32.3	30.0
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)