

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: P198215

Luminaire Tested: **TT-C3-LED-E1-DL-CG-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C3-LED-E1-DL-CG-MS/DIM-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4926.6 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 66.5
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



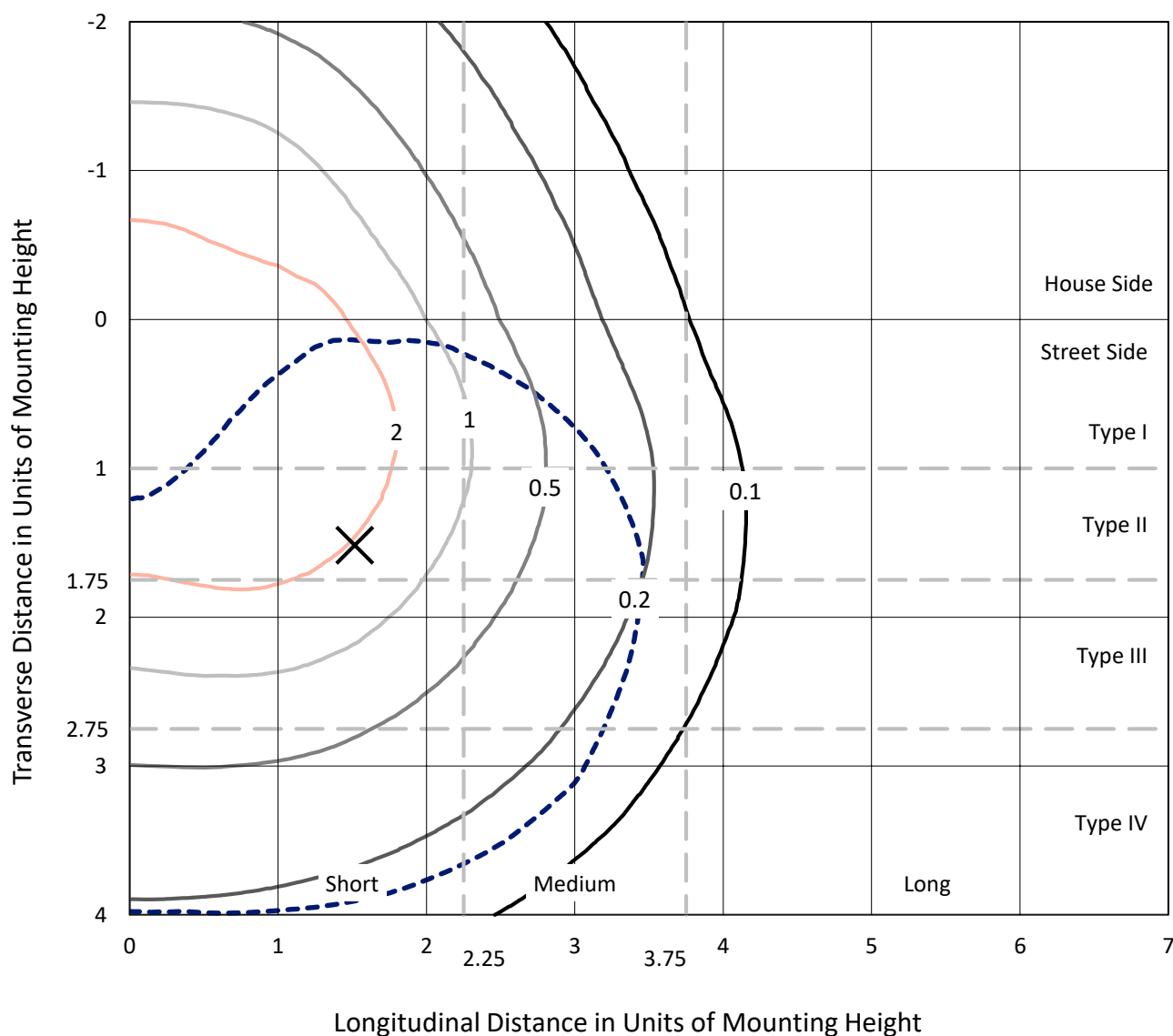
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

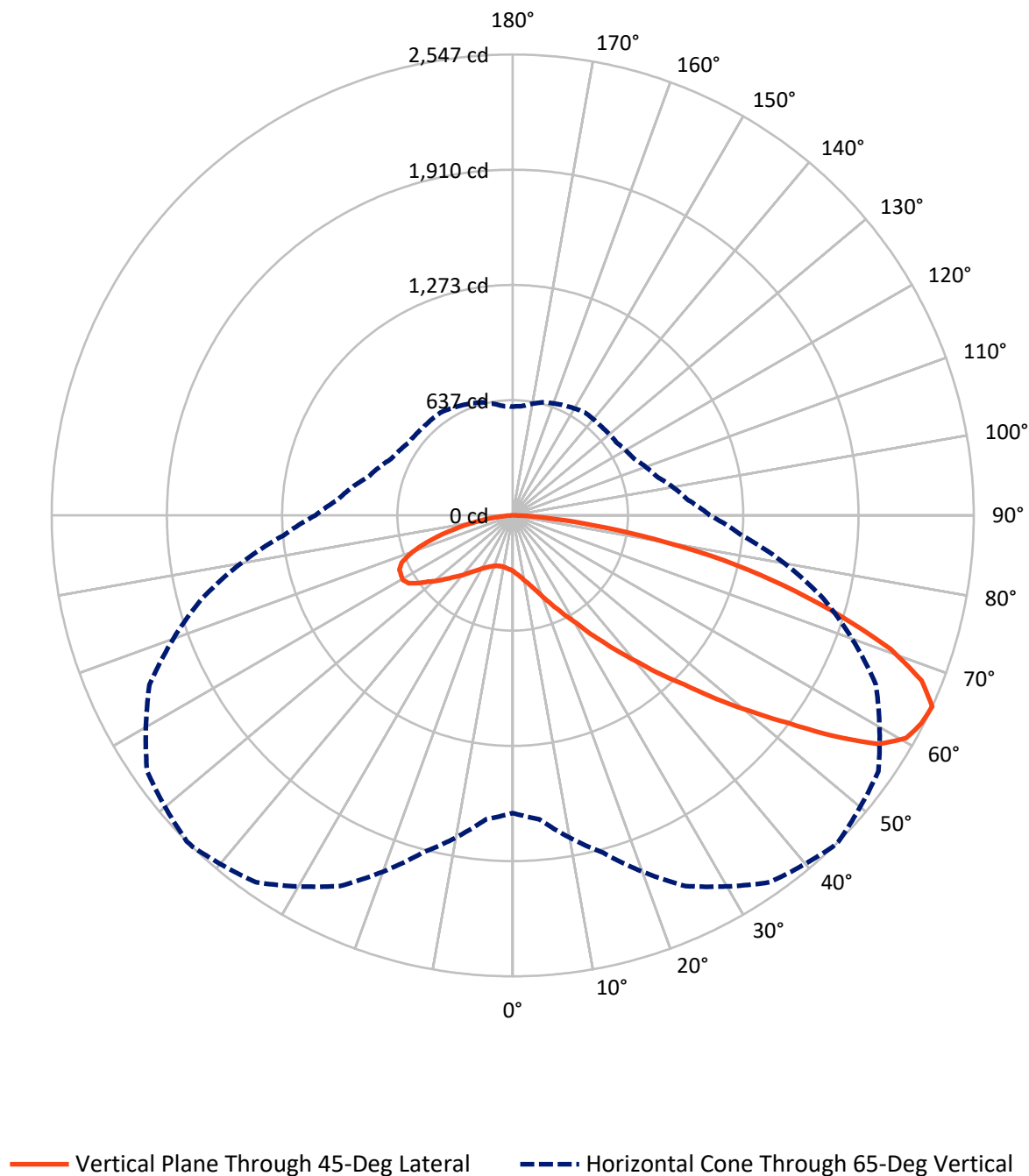


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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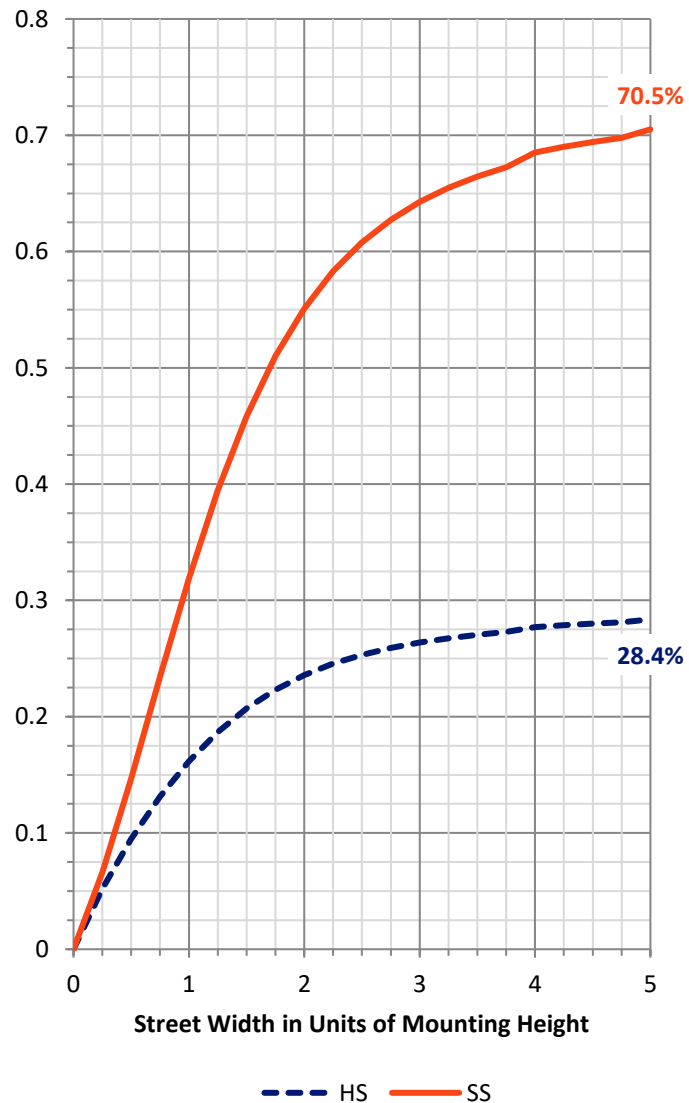
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1410.7	0.0	1410.7
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	3515.9	0.0	3515.9
	% Fixture	71.4	0.0	71.4
Total	Lumens	4926.6	0.0	4926.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.4	0.6
10°-20°	100.9	2.0
20°-30°	204.8	4.2
30°-40°	376.8	7.6
40°-50°	667.4	13.5
50°-60°	1094.9	22.2
60°-70°	1345.2	27.3
70°-80°	925.6	18.8
80°-90°	180.7	3.7
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°	4926.6	100.0
0°-180°	4926.6	100.0

Coefficient of Utilization



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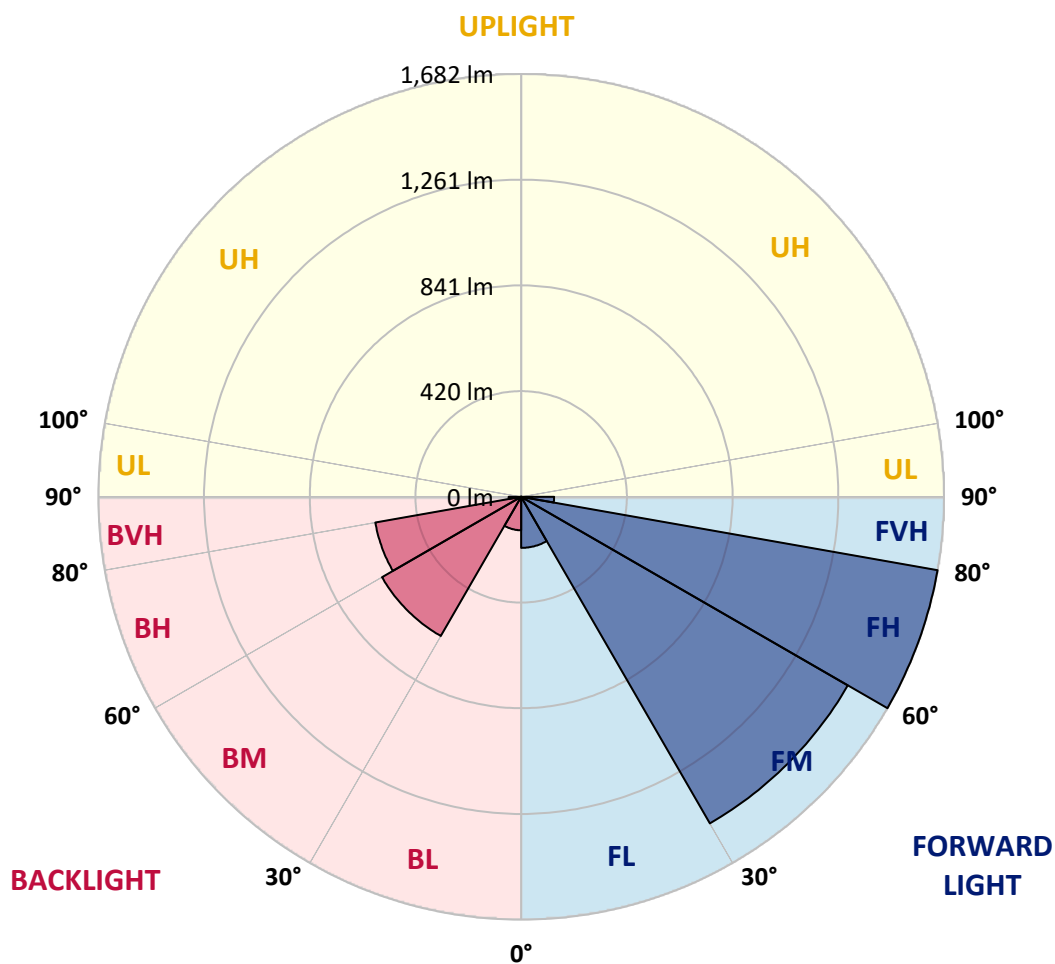
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	203.2	4.1			
FM	(30°-60°)	1499.8	30.4			
FH	(60°-80°)	1681.7	34.1			G1/1800
FVH	(80°-90°)	131.2	2.7			G2/225
BL	(0°-30°)	132.9	2.7	B1/500		
BM	(30°-60°)	639.2	13.0	B1/1000		
BH	(60°-80°)	589.1	12.0	B2/1000		G2/1000
BVH	(80°-90°)	49.4	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1
2.5°	323.9	323.9	322.9	321.9	320.9	319.9	319.9	318.0	316.0	314.0	312.0
5°	340.7	339.8	339.8	338.8	336.8	332.8	331.8	329.8	325.9	320.9	317.0
7.5°	358.6	358.6	358.6	355.6	351.6	348.7	346.7	342.7	336.8	329.8	322.9
10°	379.4	380.4	378.4	376.4	372.4	366.5	366.5	358.6	349.7	340.7	331.8
12.5°	404.1	405.1	405.1	401.2	393.2	388.3	386.3	377.4	366.5	354.6	341.7
15°	429.9	433.9	431.9	429.9	421.0	414.0	412.1	398.2	386.3	370.5	354.6
17.5°	470.5	468.5	464.6	459.6	454.7	444.8	442.8	427.9	410.1	390.3	369.5
20°	508.1	508.1	504.2	500.2	494.3	480.4	482.4	462.6	438.8	415.0	387.3
22.5°	549.7	550.7	547.8	543.8	538.9	528.0	525.0	504.2	473.5	441.8	409.1
25°	591.4	593.3	595.3	595.3	588.4	575.5	573.5	546.8	515.1	473.5	433.9
27.5°	640.9	645.8	643.8	645.8	642.9	628.0	628.0	600.3	564.6	513.1	461.6
30°	687.4	693.4	696.3	704.3	704.3	695.4	688.4	662.7	620.1	559.7	497.3
32.5°	748.8	748.8	754.8	771.6	780.5	767.7	771.6	742.9	686.4	615.1	537.9
35°	811.3	811.3	822.1	844.9	853.8	856.8	856.8	821.2	764.7	679.5	587.4
37.5°	876.6	878.6	899.4	930.1	955.9	952.9	956.9	928.1	861.8	755.8	644.8
40°	942.0	947.9	980.6	1016.3	1059.9	1073.7	1067.8	1050.0	966.8	845.9	709.2
42.5°	1013.3	1024.2	1060.9	1116.3	1162.9	1200.5	1201.5	1172.8	1090.6	950.9	786.5
45°	1087.6	1104.5	1143.1	1215.4	1290.7	1335.2	1334.3	1337.2	1255.0	1081.7	885.5
47.5°	1172.8	1183.7	1238.2	1326.3	1427.4	1516.5	1515.5	1512.6	1406.6	1202.5	963.8
50°	1258.0	1263.9	1338.2	1466.0	1601.7	1688.9	1699.8	1710.7	1567.0	1354.1	1059.9
52.5°	1346.1	1350.1	1442.2	1595.8	1789.9	1918.7	1904.8	1909.8	1800.8	1551.2	1212.4
55°	1431.3	1432.3	1548.2	1764.1	1998.9	2131.6	2152.4	2175.2	1992.0	1658.2	1258.0
57.5°	1504.6	1512.6	1667.1	1932.5	2212.9	2394.1	2384.2	2355.5	2098.0	1700.8	1264.9
60°	1568.0	1586.8	1785.0	2089.0	2376.3	2487.2	2498.1	2401.1	2131.6	1718.6	1257.0
62.5°	1614.6	1645.3	1888.0	2207.9	2471.4	2539.7	2532.8	2420.9	2188.1	1788.9	1305.5
65°	1644.3	1684.9	1929.6	2259.4	2474.4	2544.7	2546.7	2465.5	2213.9	1777.0	1270.9
67.5°	1647.3	1704.7	1916.7	2223.8	2427.8	2446.6	2435.7	2315.9	2095.0	1668.1	1171.8
70°	1624.5	1667.1	1853.3	2089.0	2232.7	2221.8	2214.8	2090.0	1881.0	1507.6	1044.0
72.5°	1535.3	1566.0	1693.8	1859.2	1923.6	1917.7	1889.0	1793.9	1625.5	1290.7	883.6
75°	1358.0	1378.8	1435.3	1525.4	1584.9	1564.1	1546.2	1454.1	1314.4	1053.9	701.3
77.5°	1117.3	1094.5	1123.3	1158.9	1188.6	1195.6	1191.6	1097.5	996.5	793.4	533.9
80°	782.5	775.6	772.6	788.5	815.2	805.3	789.5	752.8	673.6	540.8	374.4
82.5°	464.6	456.6	453.7	461.6	447.7	449.7	450.7	413.1	392.3	329.8	214.9
85°	205.0	205.0	200.1	200.1	199.1	200.1	205.0	192.2	179.3	149.6	103.0
87.5°	30.7	27.7	38.6	35.7	41.6	47.5	43.6	41.6	34.7	26.7	20.8
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°	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1
2.5°	311.0	310.0	307.1	305.1	302.1	300.1	298.2	297.2	297.2	296.2	297.2
5°	315.0	313.0	308.1	304.1	300.1	297.2	294.2	291.2	289.2	288.2	288.2
7.5°	319.0	316.0	309.0	303.1	297.2	292.2	288.2	286.3	283.3	282.3	281.3
10°	325.9	321.9	312.0	303.1	296.2	289.2	284.3	281.3	279.3	278.3	278.3
12.5°	335.8	328.9	317.0	306.1	296.2	288.2	282.3	278.3	276.4	274.4	275.4
15°	345.7	337.8	322.9	308.1	297.2	289.2	282.3	278.3	275.4	274.4	273.4
17.5°	358.6	349.7	331.8	315.0	301.1	291.2	284.3	280.3	277.4	276.4	276.4
20°	375.4	363.5	340.7	321.9	307.1	296.2	288.2	284.3	281.3	281.3	281.3
22.5°	392.3	377.4	350.7	329.8	314.0	302.1	295.2	291.2	288.2	287.3	288.2
25°	412.1	395.2	364.5	339.8	322.9	312.0	305.1	300.1	297.2	297.2	297.2
27.5°	438.8	419.0	379.4	354.6	334.8	322.9	315.0	312.0	310.0	309.0	308.1
30°	468.5	442.8	401.2	369.5	349.7	336.8	329.8	326.9	323.9	321.9	320.9
32.5°	504.2	474.5	422.0	389.3	366.5	353.6	346.7	342.7	339.8	338.8	338.8
35°	548.8	512.1	451.7	413.1	387.3	373.4	366.5	362.5	359.6	358.6	359.6
37.5°	593.3	550.7	483.4	438.8	412.1	395.2	388.3	383.3	381.4	379.4	380.4
40°	647.8	595.3	520.0	470.5	438.8	424.9	414.0	408.1	405.1	402.2	400.2
42.5°	714.2	654.7	565.6	504.2	470.5	451.7	440.8	433.9	427.9	425.9	423.0
45°	798.4	726.1	625.0	546.8	506.2	482.4	469.5	460.6	451.7	449.7	446.7
47.5°	867.7	789.5	674.6	596.3	549.7	518.1	500.2	487.3	476.4	474.5	471.5
50°	945.0	856.8	721.1	637.9	585.4	558.7	535.9	518.1	506.2	500.2	502.2
52.5°	1076.7	965.8	804.3	695.4	629.0	594.3	576.5	552.7	533.9	525.0	527.0
55°	1105.4	1000.4	848.9	750.8	685.5	644.8	613.1	589.4	565.6	549.7	548.8
57.5°	1104.5	996.5	845.9	758.8	713.2	686.4	658.7	620.1	591.4	570.6	569.6
60°	1091.6	981.6	831.1	744.9	712.2	704.3	689.4	660.7	614.1	591.4	586.4
62.5°	1123.3	1008.4	842.9	742.9	702.3	698.3	694.4	676.5	634.9	603.2	598.3
65°	1089.6	972.7	825.1	739.9	701.3	693.4	694.4	670.6	646.8	606.2	601.3
67.5°	991.5	891.5	754.8	681.5	662.7	664.7	671.6	660.7	633.9	600.3	596.3
70°	882.6	790.4	669.6	604.2	590.4	601.3	620.1	621.1	603.2	576.5	577.5
72.5°	742.9	664.7	567.6	515.1	510.1	519.0	533.9	551.7	546.8	538.9	539.8
75°	602.2	538.9	450.7	416.0	415.0	422.0	441.8	455.6	465.6	468.5	475.5
77.5°	446.7	410.1	342.7	314.0	311.0	319.9	341.7	353.6	367.5	378.4	388.3
80°	313.0	279.3	235.7	214.0	217.9	223.9	237.7	252.6	262.5	271.4	271.4
82.5°	183.2	165.4	140.7	130.8	132.7	141.6	144.6	157.5	158.5	164.4	168.4
85°	86.2	74.3	67.4	66.4	66.4	67.4	73.3	74.3	75.3	77.3	85.2
87.5°	17.8	17.8	17.8	17.8	17.8	20.8	21.8	23.8	22.8	23.8	22.8
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)