

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: P198192

Luminaire Tested: **TT-C3-LED-E1-DL-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34703)
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-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5412.4 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

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



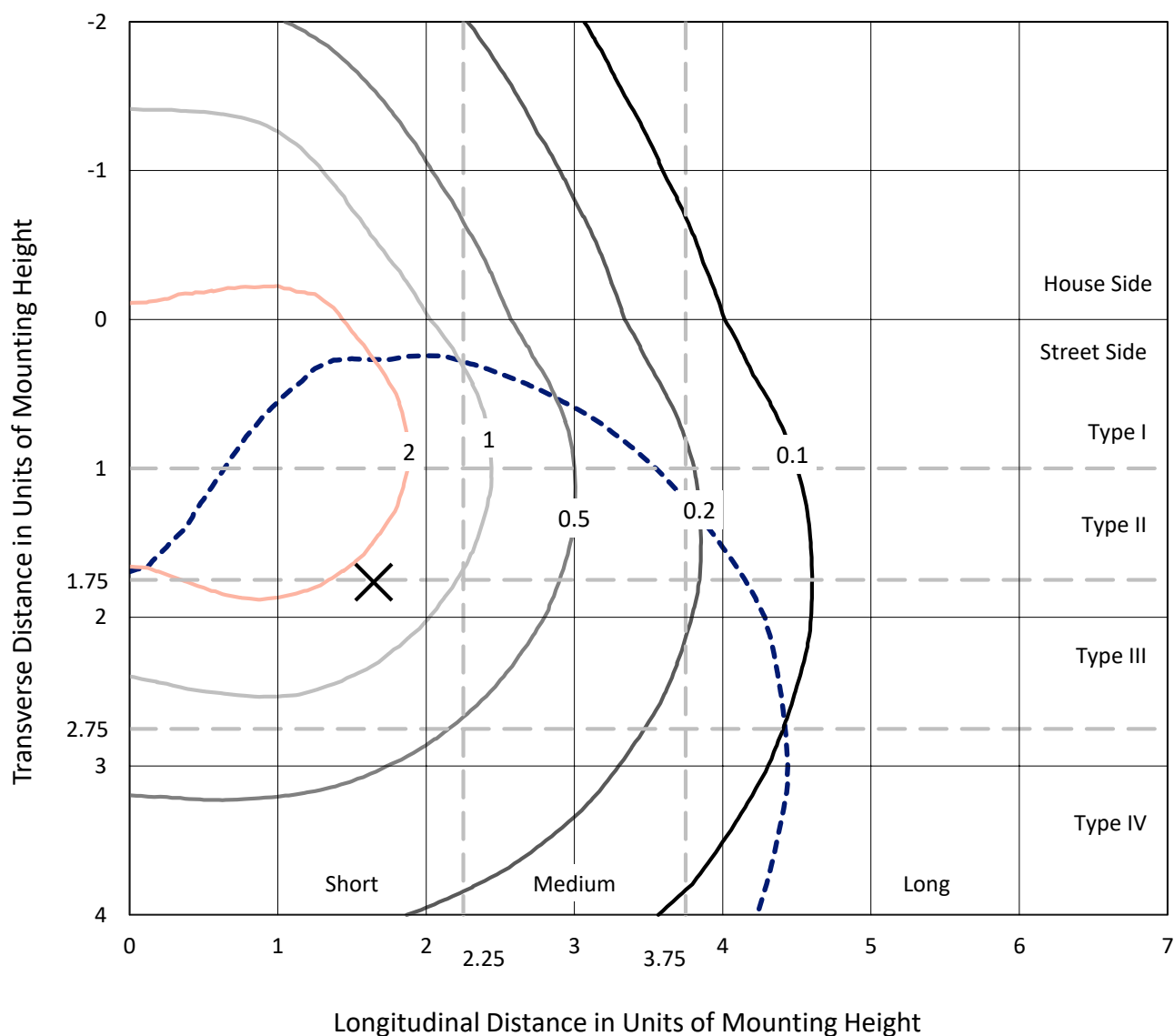
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

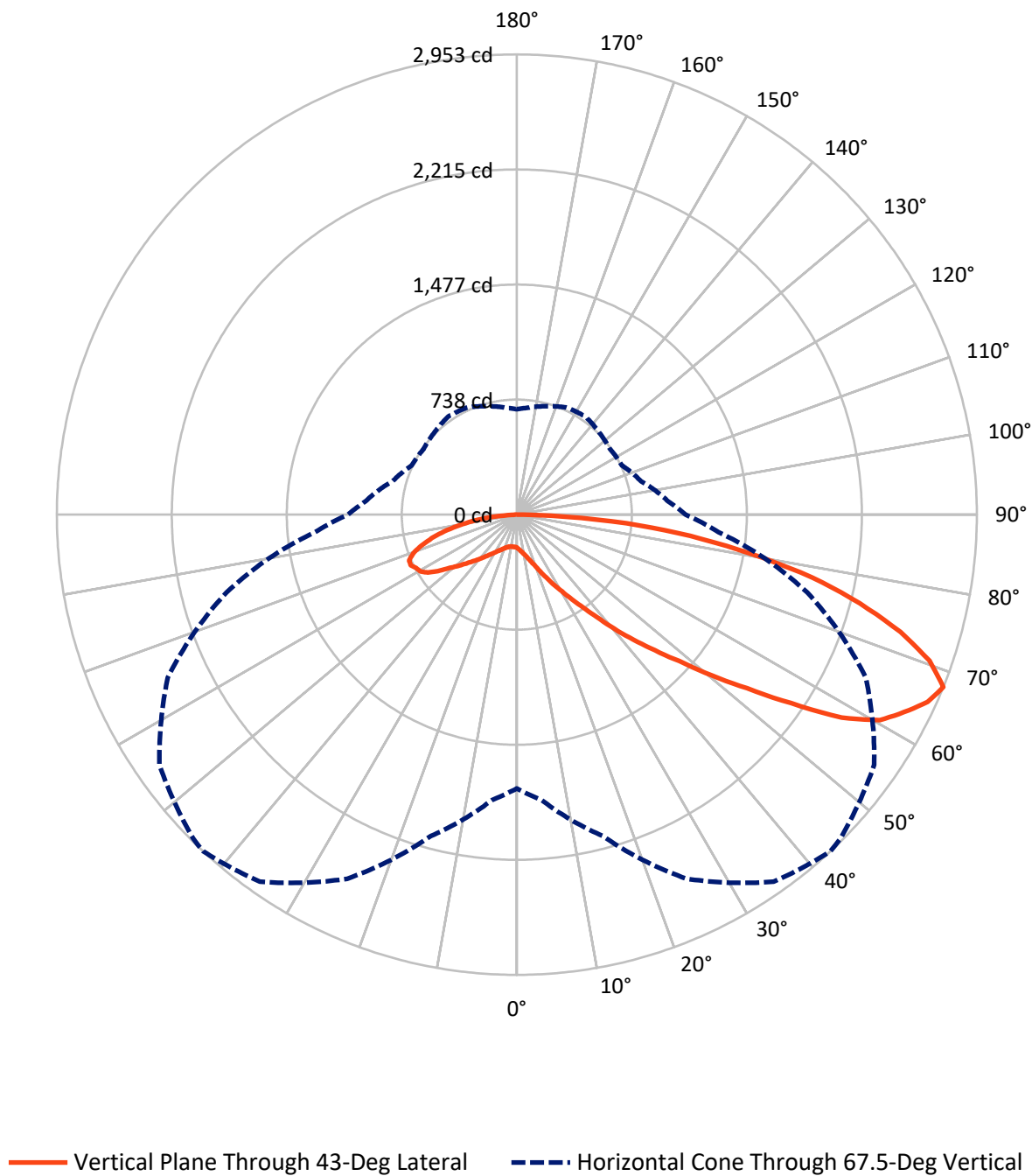


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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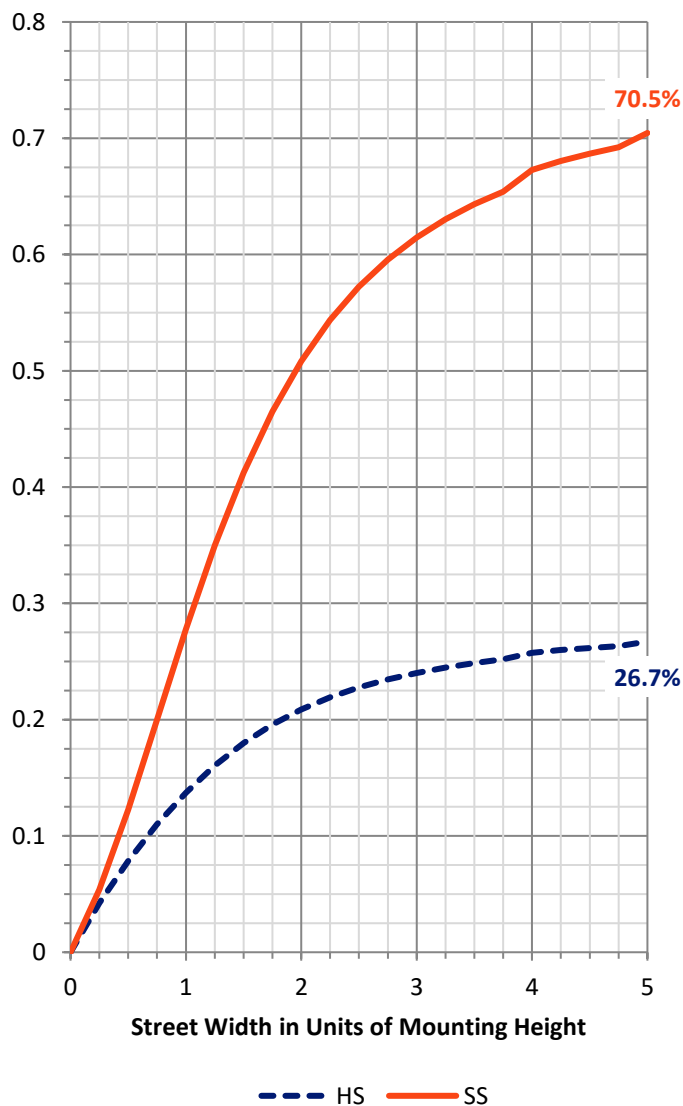
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1477.1	0.0	1477.1
	% Fixture	27.3	0.0	27.3
Street Side	Lumens	3935.3	0.0	3935.3
	% Fixture	72.7	0.0	72.7
Total	Lumens	5412.4	0.0	5412.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	0.4
10°-20°	73.9	1.4
20°-30°	161.4	3.0
30°-40°	319.7	5.9
40°-50°	605.3	11.2
50°-60°	1074.7	19.9
60°-70°	1488.3	27.5
70°-80°	1276.6	23.6
80°-90°	391.2	7.2
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°	5412.4	100.0
0°-180°	5412.4	100.0

Coefficient of Utilization



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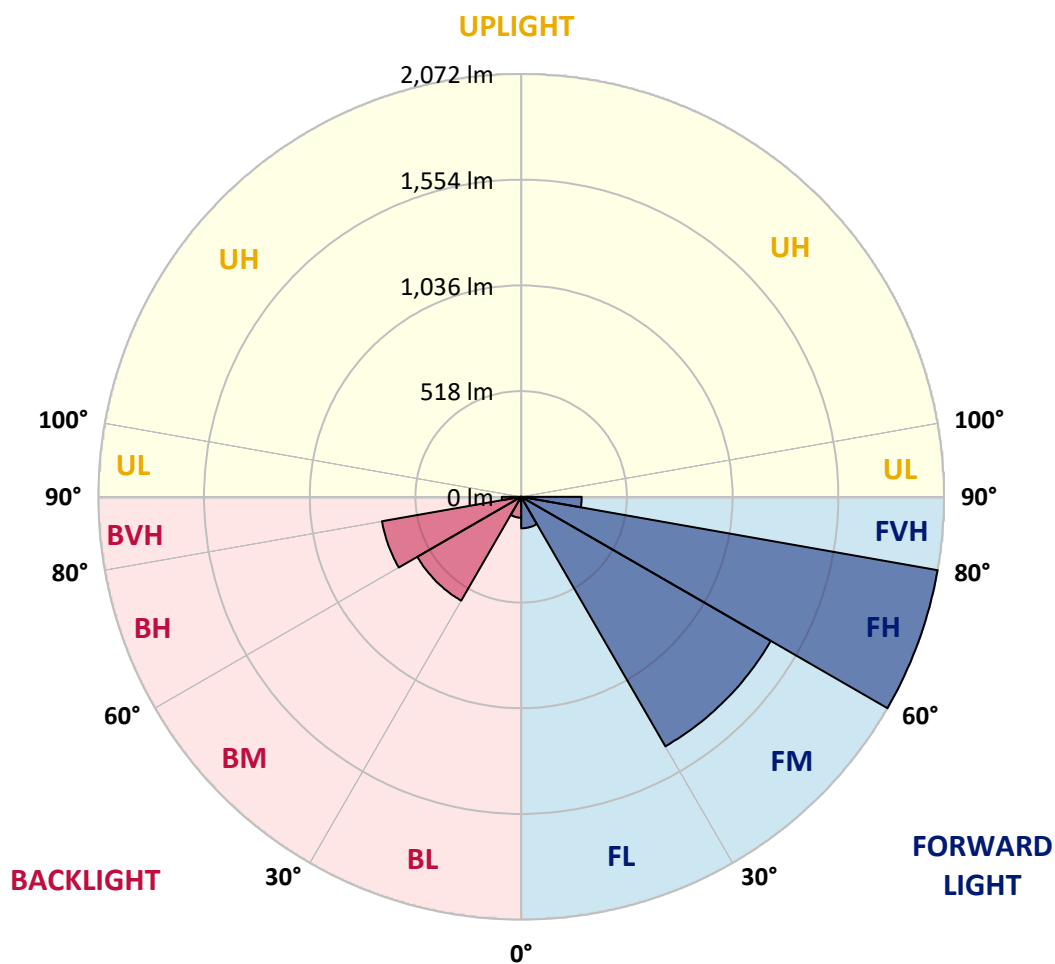
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	154.2	2.8			
FM	(30°-60°)	1412.2	26.1			
FH	(60°-80°)	2072.1	38.3			G2/5000
FVH	(80°-90°)	296.7	5.5			G3/500
BL	(0°-30°)	102.4	1.9	B0/110		
BM	(30°-60°)	587.5	10.9	B1/1000		
BH	(60°-80°)	692.8	12.8	B2/1000		G2/1000
BVH	(80°-90°)	94.4	1.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	211.4	211.4	211.4	211.4	211.4	211.4	211.4	211.4	211.4	211.4	211.4
2.5°	223.2	222.2	222.2	222.2	221.2	220.2	220.2	219.2	218.2	217.3	215.3
5°	235.0	233.0	233.0	233.0	232.0	231.0	230.0	228.1	225.1	222.2	220.2
7.5°	248.7	249.7	249.7	246.7	244.8	242.8	241.8	237.9	234.0	229.1	225.1
10°	265.4	266.4	266.4	264.4	260.5	258.5	256.6	252.6	245.8	238.9	233.0
12.5°	284.1	286.1	287.1	284.1	279.2	275.3	276.2	269.4	260.5	251.7	242.8
15°	311.6	310.6	313.6	307.7	302.8	297.9	296.9	287.1	278.2	266.4	255.6
17.5°	345.1	341.1	341.1	338.2	335.2	327.4	323.4	313.6	298.8	285.1	268.4
20°	379.5	378.5	376.5	374.5	368.6	359.8	360.8	345.1	327.4	307.7	287.1
22.5°	419.8	423.7	417.8	417.8	412.9	406.0	403.1	382.4	358.8	331.3	307.7
25°	463.0	464.0	464.0	466.0	465.0	453.2	447.3	428.6	401.1	364.7	330.3
27.5°	507.3	511.2	510.2	515.1	518.1	510.2	505.3	483.7	444.3	404.0	360.8
30°	556.4	559.4	564.3	576.1	579.0	571.2	567.2	541.7	502.3	445.3	391.3
32.5°	612.4	616.4	621.3	643.9	654.7	645.9	640.0	617.4	568.2	505.3	436.5
35°	674.4	674.4	691.1	718.6	735.3	729.4	731.4	707.8	654.7	576.1	491.5
37.5°	743.2	743.2	764.8	799.2	831.7	833.6	844.4	816.9	752.0	650.8	545.6
40°	804.1	816.9	849.4	893.6	944.7	961.4	966.3	938.8	859.2	739.3	605.6
42.5°	874.9	889.7	930.0	995.8	1060.7	1097.1	1099.1	1072.5	989.9	851.3	692.1
45°	946.7	965.4	1014.5	1098.1	1197.4	1240.6	1241.6	1242.6	1166.9	985.0	793.3
47.5°	1028.3	1043.0	1107.9	1207.2	1334.0	1404.8	1428.4	1431.3	1328.1	1123.6	881.8
50°	1116.8	1121.7	1211.1	1351.7	1522.8	1621.1	1634.8	1644.7	1499.2	1280.9	975.2
52.5°	1208.2	1215.1	1319.3	1513.9	1729.2	1851.1	1874.7	1878.6	1761.6	1509.0	1156.1
55°	1302.6	1308.5	1443.1	1707.6	1975.0	2135.2	2177.5	2204.0	2020.2	1655.5	1228.8
57.5°	1398.9	1413.6	1593.5	1909.1	2246.3	2458.6	2488.1	2447.8	2166.7	1730.2	1249.5
60°	1495.2	1521.8	1756.7	2134.2	2513.7	2677.9	2685.7	2573.6	2237.4	1771.5	1257.3
62.5°	1585.7	1629.9	1927.8	2342.6	2691.6	2790.9	2790.9	2642.5	2338.7	1905.2	1347.8
65°	1677.1	1730.2	2056.6	2491.1	2788.9	2898.1	2910.8	2827.3	2513.7	1986.8	1374.3
67.5°	1756.7	1838.3	2135.2	2577.6	2875.4	2953.1	2938.4	2800.7	2471.4	1929.7	1300.6
70°	1845.2	1901.2	2191.2	2575.6	2797.8	2810.6	2802.7	2654.3	2337.7	1823.6	1206.2
72.5°	1880.6	1925.8	2152.9	2441.9	2576.6	2574.6	2560.9	2430.1	2130.3	1658.4	1076.4
75°	1844.2	1841.3	1975.9	2169.6	2273.8	2274.8	2264.0	2152.9	1862.9	1424.5	911.3
77.5°	1646.6	1640.7	1699.7	1817.7	1929.7	1939.6	1920.9	1797.0	1551.3	1179.7	761.9
80°	1329.1	1304.5	1348.8	1445.1	1531.6	1522.8	1538.5	1402.8	1205.2	910.3	576.1
82.5°	899.5	907.4	962.4	1020.4	1113.8	1121.7	1105.0	1030.2	872.0	660.6	405.0
85°	465.0	475.8	545.6	636.0	668.5	705.8	701.9	649.8	526.9	383.4	240.8
87.5°	81.6	70.8	99.3	150.4	182.8	218.2	217.3	155.3	121.9	82.6	51.1
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°	211.4	211.4	211.4	211.4	211.4	211.4	211.4	211.4	211.4	211.4	211.4
2.5°	215.3	214.3	213.3	211.4	209.4	208.4	207.4	206.4	206.4	205.5	205.5
5°	219.2	217.3	215.3	212.3	210.4	208.4	206.4	205.5	204.5	203.5	203.5
7.5°	223.2	221.2	217.3	213.3	209.4	207.4	206.4	204.5	203.5	202.5	202.5
10°	230.0	227.1	221.2	215.3	211.4	208.4	205.5	204.5	203.5	203.5	202.5
12.5°	237.9	233.0	226.1	219.2	213.3	209.4	207.4	206.4	205.5	205.5	204.5
15°	249.7	244.8	234.0	224.1	219.2	214.3	211.4	210.4	209.4	210.4	209.4
17.5°	261.5	255.6	241.8	232.0	224.1	220.2	217.3	216.3	215.3	217.3	217.3
20°	277.2	268.4	253.6	240.8	232.0	227.1	226.1	224.1	225.1	226.1	226.1
22.5°	293.9	283.1	265.4	250.7	242.8	236.9	235.9	235.9	235.9	236.9	237.9
25°	314.6	300.8	278.2	263.5	253.6	248.7	247.7	247.7	248.7	249.7	249.7
27.5°	340.1	322.4	294.9	276.2	265.4	260.5	259.5	260.5	262.5	263.5	263.5
30°	369.6	349.0	313.6	293.9	281.2	275.3	275.3	276.2	278.2	280.2	277.2
32.5°	405.0	378.5	339.2	312.6	298.8	293.0	293.0	294.9	293.9	294.9	297.9
35°	450.2	418.8	369.6	338.2	320.5	313.6	313.6	314.6	314.6	316.5	317.5
37.5°	498.4	460.1	402.1	367.7	348.0	338.2	335.2	336.2	338.2	337.2	339.2
40°	551.5	505.3	440.4	397.2	376.5	365.7	359.8	359.8	358.8	357.8	356.9
42.5°	622.3	568.2	487.6	434.5	409.0	397.2	387.3	384.4	382.4	383.4	376.5
45°	711.7	648.8	547.6	489.6	447.3	428.6	418.8	412.9	408.0	404.0	400.1
47.5°	787.4	707.8	602.6	536.8	492.5	469.9	454.2	444.3	434.5	430.6	430.6
50°	869.0	788.4	666.5	581.0	541.7	514.1	497.4	479.7	466.0	457.1	462.0
52.5°	1027.3	925.1	762.9	665.5	592.8	562.3	542.6	519.1	500.4	488.6	489.6
55°	1073.5	966.3	815.0	721.6	658.6	629.2	598.7	567.2	538.7	522.0	523.0
57.5°	1080.4	971.3	824.8	743.2	706.8	687.2	660.6	619.3	583.0	556.4	553.5
60°	1075.5	968.3	823.8	741.2	714.7	718.6	710.8	675.4	626.2	593.8	589.8
62.5°	1147.2	1022.4	866.1	757.9	723.5	729.4	739.3	718.6	670.4	626.2	619.3
65°	1153.1	1032.2	872.0	779.6	753.0	753.0	758.9	743.2	703.9	658.6	647.8
67.5°	1083.3	975.2	825.8	745.2	731.4	747.1	767.8	757.9	719.6	687.2	676.3
70°	1005.7	899.5	765.8	689.1	682.2	703.9	737.3	746.1	728.4	701.9	698.0
72.5°	883.8	803.2	678.3	618.3	616.4	638.0	672.4	697.0	701.9	702.9	700.9
75°	761.9	679.3	578.0	532.8	536.8	560.3	590.8	617.4	643.9	665.5	674.4
77.5°	624.2	563.3	482.7	439.4	447.3	473.8	498.4	525.0	552.5	589.8	594.8
80°	478.7	437.5	364.7	346.0	345.1	366.7	396.2	411.9	451.2	481.7	478.7
82.5°	338.2	305.7	264.4	247.7	251.7	266.4	285.1	295.9	324.4	341.1	346.0
85°	199.6	185.8	162.2	146.5	150.4	165.2	168.1	181.9	188.7	199.6	196.6
87.5°	42.3	36.4	32.4	33.4	29.5	30.5	34.4	33.4	33.4	39.3	37.4
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)