

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: P198191

Luminaire Tested: **TT-C3-LED-E1-DL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198191
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5453.6 lumens
Efficiency: N/A
Efficacy: 82.0 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



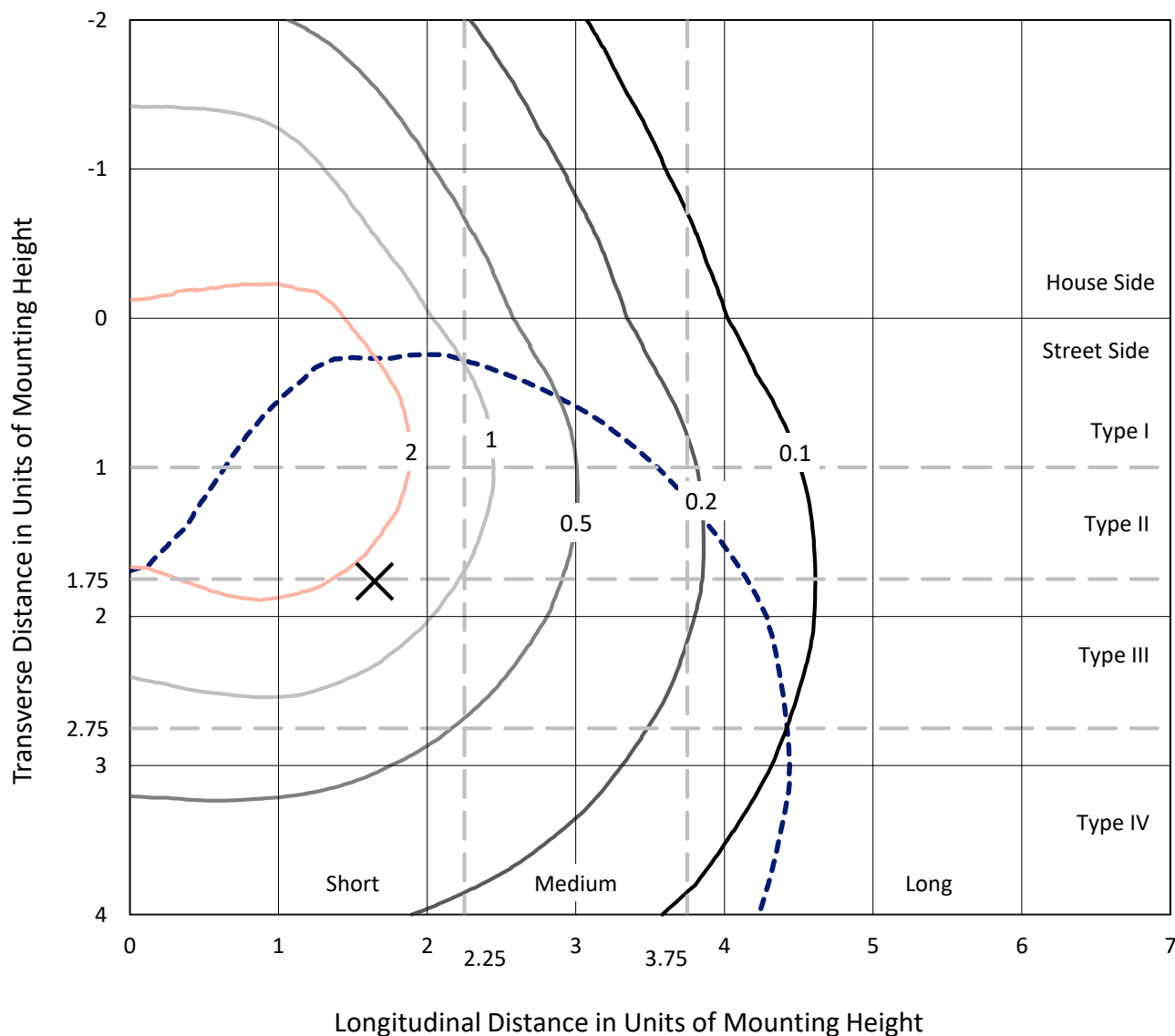
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

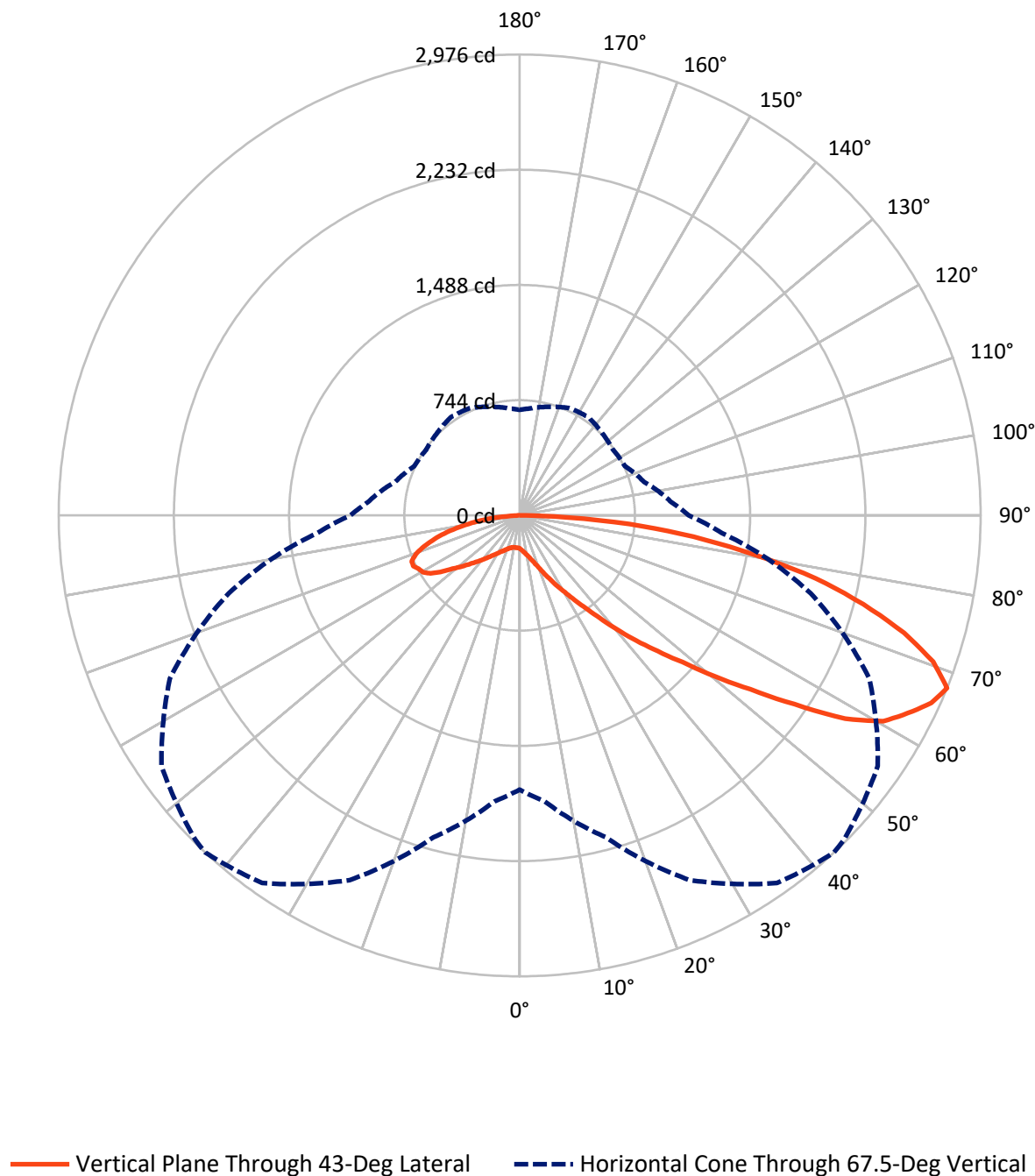


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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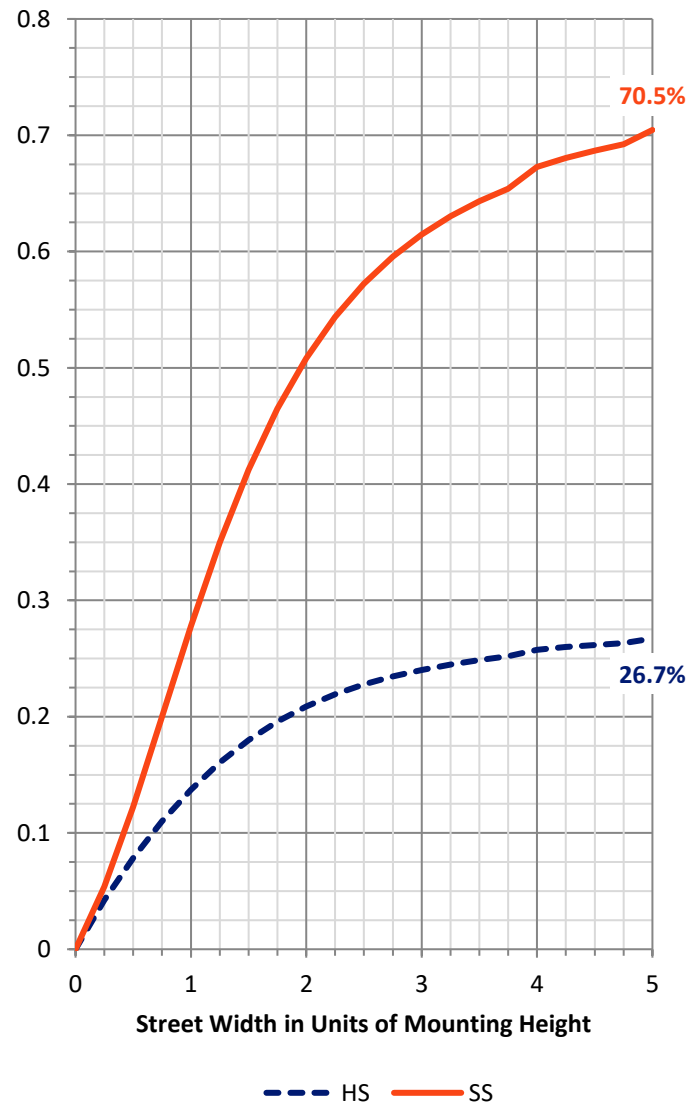
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1488.4	0.0	1488.4
	% Fixture	27.3	0.0	27.3
Street Side	Lumens	3965.2	0.0	3965.2
	% Fixture	72.7	0.0	72.7
Total	Lumens	5453.6	0.0	5453.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.5	0.4
10°-20°	74.5	1.4
20°-30°	162.6	3.0
30°-40°	322.1	5.9
40°-50°	609.9	11.2
50°-60°	1082.9	19.9
60°-70°	1499.6	27.5
70°-80°	1286.3	23.6
80°-90°	394.2	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°	5453.6	100.0
0°-180°	5453.6	100.0

Coefficient of Utilization



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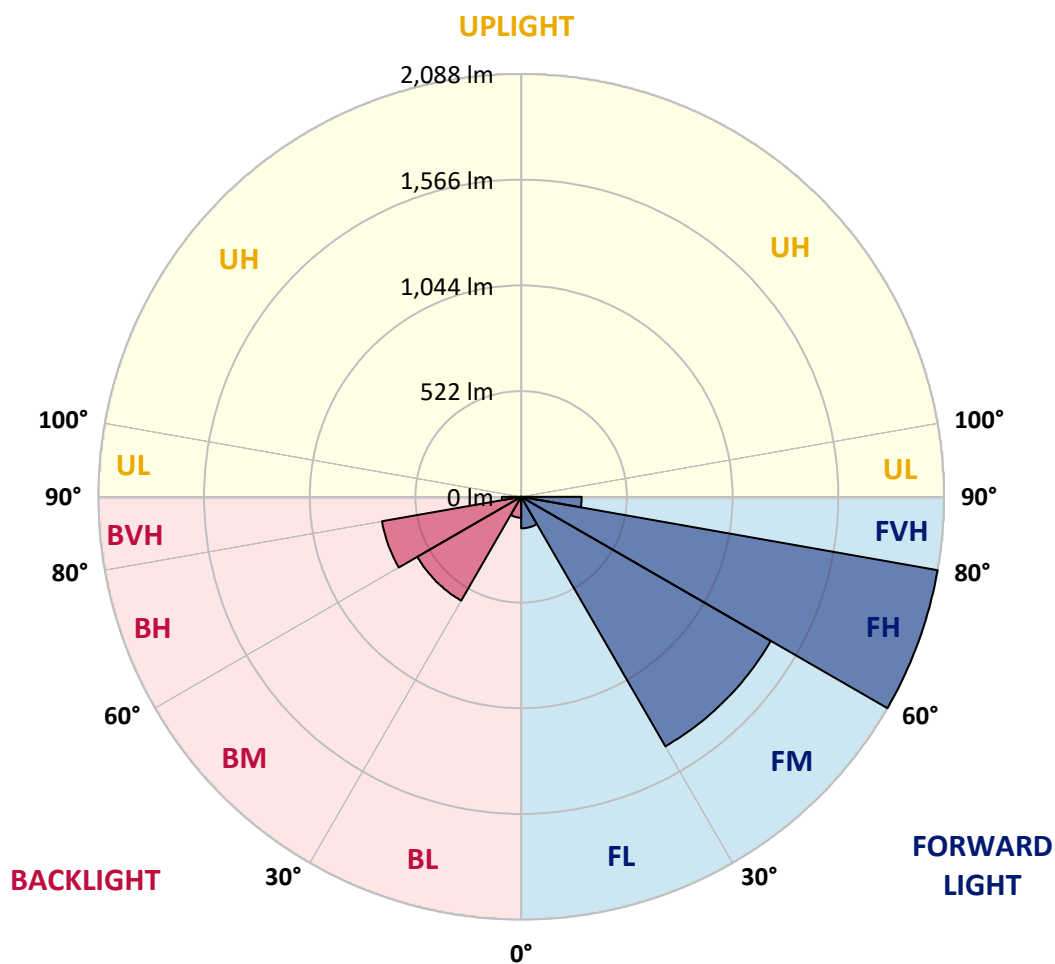
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	155.4	2.8			
FM	(30°-60°)	1423.0	26.1			
FH	(60°-80°)	2087.9	38.3			G2/5000
FVH	(80°-90°)	299.0	5.5			G3/500
BL	(0°-30°)	103.2	1.9	B0/110		
BM	(30°-60°)	591.9	10.9	B1/1000		
BH	(60°-80°)	698.1	12.8	B2/1000		G2/1000
BVH	(80°-90°)	95.2	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°	213.0	213.0	213.0	213.0	213.0	213.0	213.0	213.0	213.0	213.0	213.0
2.5°	224.9	223.9	223.9	223.9	222.9	221.9	221.9	220.9	219.9	218.9	216.9
5°	236.7	234.8	234.8	234.8	233.8	231.8	231.8	229.8	226.8	223.9	221.9
7.5°	250.6	251.6	251.6	248.6	246.6	244.7	243.7	239.7	235.7	230.8	226.8
10°	267.4	268.4	268.4	266.5	262.5	260.5	258.5	254.6	247.6	240.7	234.8
12.5°	286.3	288.2	289.2	286.3	281.3	277.4	278.3	271.4	262.5	253.6	244.7
15°	314.0	313.0	316.0	310.0	305.1	300.1	299.1	289.2	280.3	268.4	257.5
17.5°	347.7	343.7	343.7	340.7	337.8	329.8	325.9	316.0	301.1	287.3	270.4
20°	382.3	381.4	379.4	377.4	371.5	362.5	363.5	347.7	329.8	310.0	289.2
22.5°	423.0	426.9	421.0	421.0	416.0	409.1	406.1	385.3	361.5	333.8	310.0
25°	466.5	467.5	467.5	469.5	468.5	456.6	450.7	431.9	404.1	367.5	332.8
27.5°	511.1	515.1	514.1	519.0	522.0	514.1	509.1	487.3	447.7	407.1	363.5
30°	560.6	563.6	568.6	580.5	583.4	575.5	571.5	545.8	506.2	448.7	394.2
32.5°	617.1	621.1	626.0	648.8	659.7	650.8	644.8	622.1	572.5	509.1	439.8
35°	679.5	679.5	696.3	724.1	740.9	735.0	737.0	713.2	659.7	580.5	495.3
37.5°	748.8	748.8	770.6	805.3	838.0	840.0	850.9	823.1	757.8	655.7	549.7
40°	810.3	823.1	855.8	900.4	951.9	968.7	973.7	946.0	865.7	744.9	610.2
42.5°	881.6	896.4	937.0	1003.4	1068.8	1105.4	1107.4	1080.7	997.5	857.8	697.3
45°	953.9	972.7	1022.2	1106.4	1206.5	1250.1	1251.1	1252.0	1175.8	992.5	799.4
47.5°	1036.1	1051.0	1116.3	1216.4	1344.2	1415.5	1439.3	1442.2	1338.2	1132.2	888.5
50°	1125.3	1130.2	1220.3	1362.0	1534.3	1633.4	1647.3	1657.2	1510.6	1290.7	982.6
52.5°	1217.4	1224.3	1329.3	1525.4	1742.4	1865.2	1889.0	1892.9	1775.0	1520.5	1164.9
55°	1312.5	1318.4	1454.1	1720.6	1990.0	2151.4	2194.0	2220.8	2035.6	1668.1	1238.2
57.5°	1409.5	1424.4	1605.7	1923.6	2263.4	2477.3	2507.1	2466.4	2183.1	1743.3	1259.0
60°	1506.6	1533.4	1770.1	2150.5	2532.8	2698.2	2706.2	2593.2	2254.5	1785.0	1266.9
62.5°	1597.7	1642.3	1942.4	2360.5	2712.1	2812.1	2812.1	2662.6	2356.5	1919.7	1358.0
65°	1689.9	1743.3	2072.2	2510.0	2810.2	2920.1	2933.0	2848.8	2532.8	2001.9	1384.8
67.5°	1770.1	1852.3	2151.4	2597.2	2897.3	2975.6	2960.7	2822.0	2490.2	1944.4	1310.5
70°	1859.2	1915.7	2207.9	2595.2	2819.1	2831.9	2824.0	2674.5	2355.5	1837.4	1215.4
72.5°	1894.9	1940.5	2169.3	2460.5	2596.2	2594.2	2580.4	2448.6	2146.5	1671.0	1084.6
75°	1858.3	1855.3	1991.0	2186.1	2291.1	2292.1	2281.2	2169.3	1877.1	1435.3	918.2
77.5°	1659.2	1653.2	1712.6	1831.5	1944.4	1954.3	1935.5	1810.7	1563.1	1188.6	767.7
80°	1339.2	1314.4	1359.0	1456.1	1543.3	1534.3	1550.2	1413.5	1214.4	917.2	580.5
82.5°	906.3	914.3	969.7	1028.2	1122.3	1130.2	1113.4	1038.1	878.6	665.6	408.1
85°	468.5	479.4	549.7	640.9	673.6	711.2	707.2	654.7	530.9	386.3	242.7
87.5°	82.2	71.3	100.0	151.6	184.2	219.9	218.9	156.5	122.8	83.2	51.5
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°	213.0	213.0	213.0	213.0	213.0	213.0	213.0	213.0	213.0	213.0	213.0
2.5°	216.9	215.9	214.9	213.0	211.0	210.0	209.0	208.0	208.0	207.0	207.0
5°	220.9	218.9	216.9	214.0	212.0	210.0	208.0	207.0	206.0	205.0	205.0
7.5°	224.9	222.9	218.9	214.9	211.0	209.0	208.0	206.0	205.0	204.1	204.1
10°	231.8	228.8	222.9	216.9	213.0	210.0	207.0	206.0	205.0	205.0	204.1
12.5°	239.7	234.8	227.8	220.9	214.9	211.0	209.0	208.0	207.0	207.0	206.0
15°	251.6	246.6	235.7	225.8	220.9	215.9	213.0	212.0	211.0	212.0	211.0
17.5°	263.5	257.5	243.7	233.8	225.8	221.9	218.9	217.9	216.9	218.9	218.9
20°	279.3	270.4	255.6	242.7	233.8	228.8	227.8	225.8	226.8	227.8	227.8
22.5°	296.2	285.3	267.4	252.6	244.7	238.7	237.7	237.7	237.7	238.7	239.7
25°	317.0	303.1	280.3	265.5	255.6	250.6	249.6	249.6	250.6	251.6	251.6
27.5°	342.7	324.9	297.2	278.3	267.4	262.5	261.5	262.5	264.5	265.5	265.5
30°	372.4	351.6	316.0	296.2	283.3	277.4	277.4	278.3	280.3	282.3	279.3
32.5°	408.1	381.4	341.7	315.0	301.1	295.2	295.2	297.2	296.2	297.2	300.1
35°	453.7	422.0	372.4	340.7	322.9	316.0	316.0	317.0	317.0	319.0	319.9
37.5°	502.2	463.6	405.1	370.5	350.7	340.7	337.8	338.8	340.7	339.8	341.7
40°	555.7	509.1	443.8	400.2	379.4	368.5	362.5	362.5	361.5	360.6	359.6
42.5°	627.0	572.5	491.3	437.8	412.1	400.2	390.3	387.3	385.3	386.3	379.4
45°	717.1	653.8	551.7	493.3	450.7	431.9	422.0	416.0	411.1	407.1	403.1
47.5°	793.4	713.2	607.2	540.8	496.3	473.5	457.6	447.7	437.8	433.9	433.9
50°	875.6	794.4	671.6	585.4	545.8	518.1	501.2	483.4	469.5	460.6	465.6
52.5°	1035.1	932.1	768.7	670.6	597.3	566.6	546.8	523.0	504.2	492.3	493.3
55°	1081.7	973.7	821.2	727.1	663.7	633.9	603.2	571.5	542.8	526.0	527.0
57.5°	1088.6	978.7	831.1	748.8	712.2	692.4	665.6	624.0	587.4	560.6	557.7
60°	1083.6	975.7	830.1	746.9	720.1	724.1	716.2	680.5	631.0	598.3	594.3
62.5°	1156.0	1030.2	872.7	763.7	729.0	735.0	744.9	724.1	675.5	631.0	624.0
65°	1161.9	1040.1	878.6	785.5	758.8	758.8	764.7	748.8	709.2	663.7	652.8
67.5°	1091.6	982.6	832.1	750.8	737.0	752.8	773.6	763.7	725.1	692.4	681.5
70°	1013.3	906.3	771.6	694.4	687.4	709.2	742.9	751.8	734.0	707.2	703.3
72.5°	890.5	809.3	683.5	623.0	621.1	642.9	677.5	702.3	707.2	708.2	706.3
75°	767.7	684.5	582.4	536.9	540.8	564.6	595.3	622.1	648.8	670.6	679.5
77.5°	629.0	567.6	486.4	442.8	450.7	477.4	502.2	528.9	556.7	594.3	599.3
80°	482.4	440.8	367.5	348.7	347.7	369.5	399.2	415.0	454.7	485.4	482.4
82.5°	340.7	308.1	266.5	249.6	253.6	268.4	287.3	298.2	326.9	343.7	348.7
85°	201.1	187.2	163.4	147.6	151.6	166.4	169.4	183.2	190.2	201.1	198.1
87.5°	42.6	36.6	32.7	33.7	29.7	30.7	34.7	33.7	33.7	39.6	37.6
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)