

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: P197792

Luminaire Tested: **TT-C5-LED-E1-WQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34714)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-WQ-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8722 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 77
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

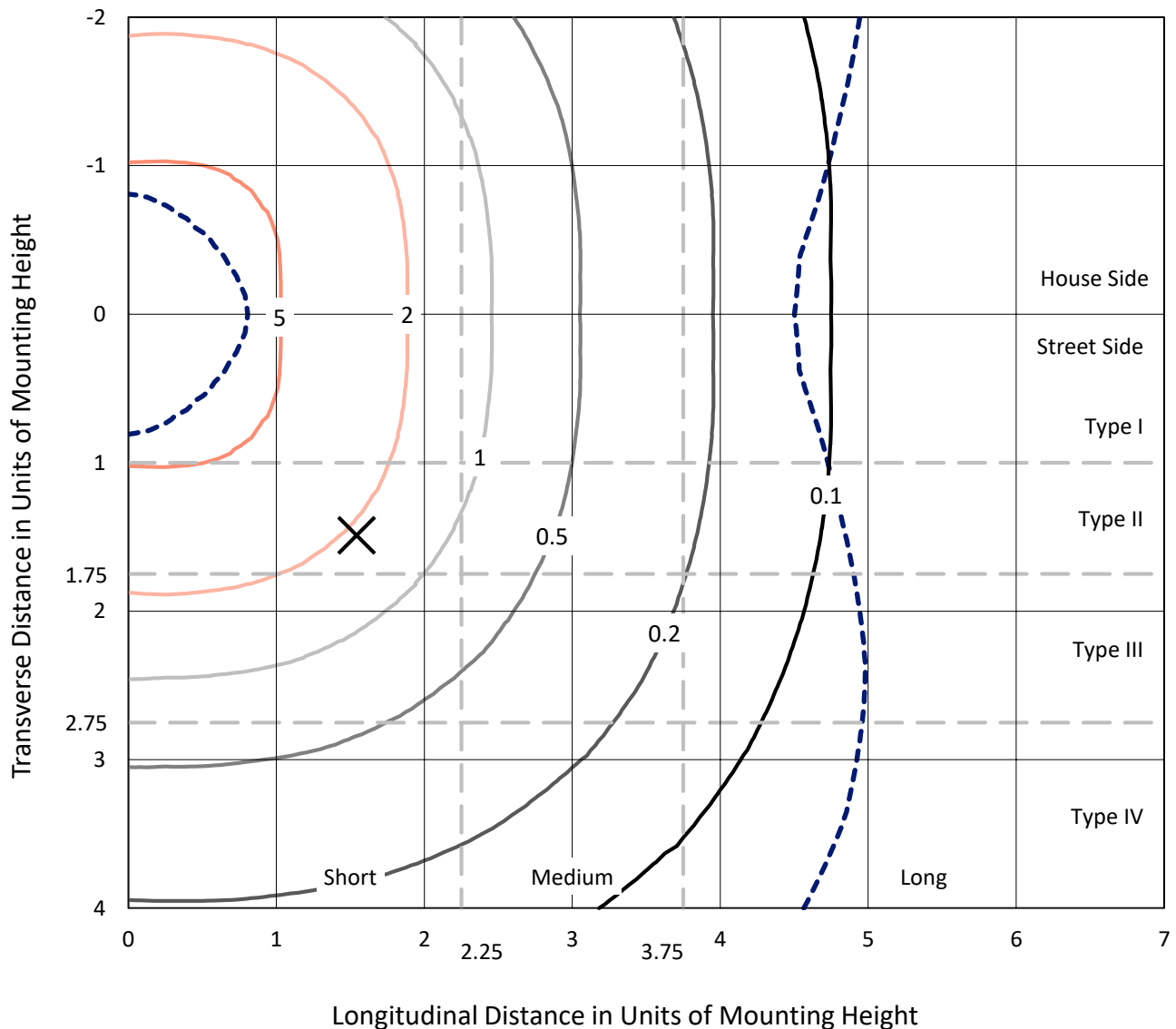


REPORT NUMBER: P197792

CATALOG NUMBER: TT-C5-LED-E1-WQ-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

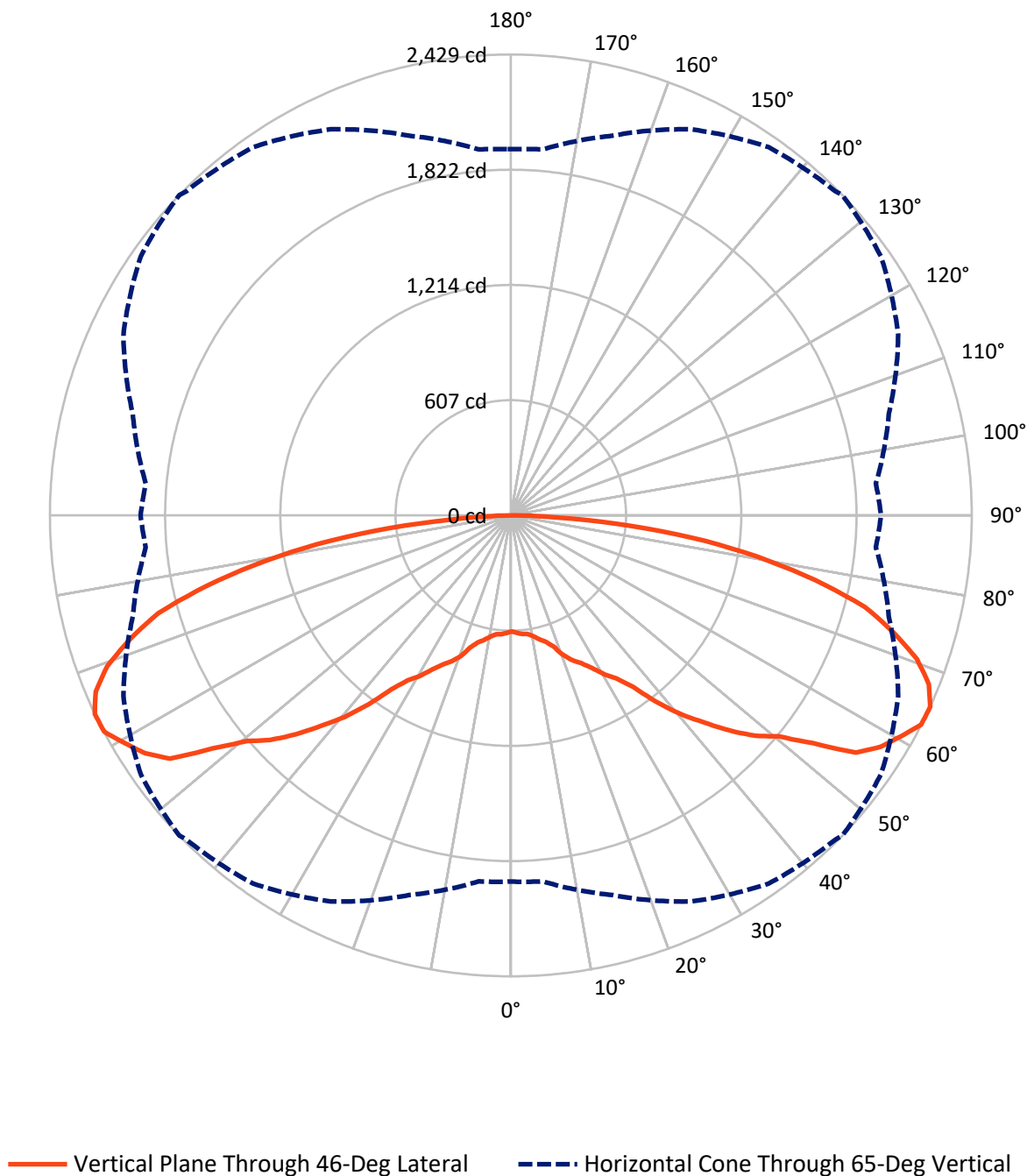


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197792

CATALOG NUMBER: TT-C5-LED-E1-WQ-7060

Luminous Intensity Polar Plot



REPORT NUMBER: P197792

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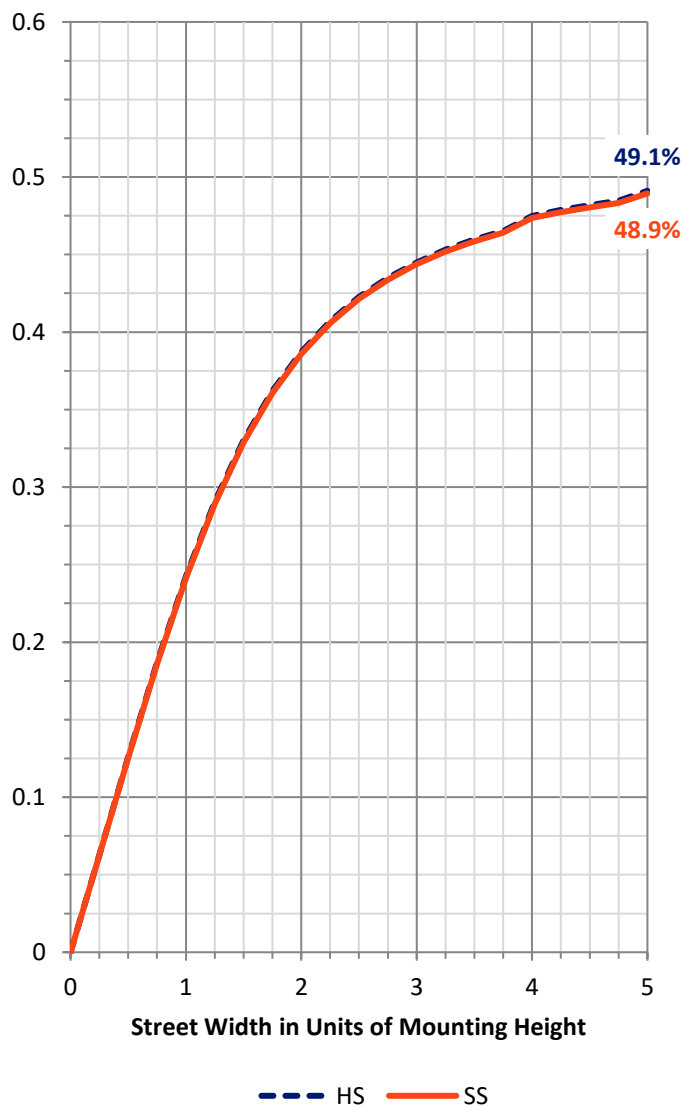
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4361.0	0.0	4361.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4361.0	0.0	4361.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8722.0	0.0	8722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	0.7
10°-20°	201.4	2.3
20°-30°	405.2	4.6
30°-40°	705.6	8.1
40°-50°	1193.3	13.7
50°-60°	1778.7	20.4
60°-70°	2128.7	24.4
70°-80°	1723.5	19.8
80°-90°	525.1	6.0
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°	8722.0	100.0
0°-180°	8722.0	100.0

Coefficient of Utilization



REPORT NUMBER: P197792

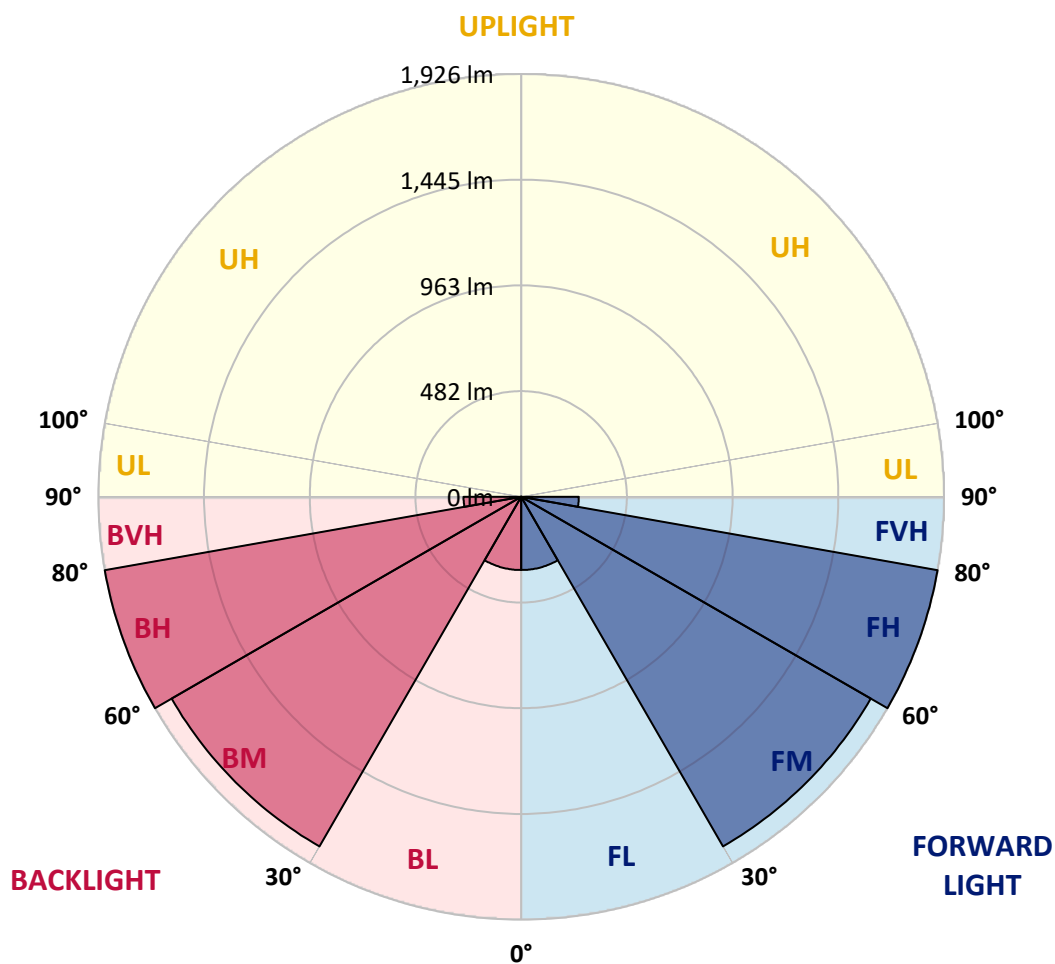
CATALOG NUMBER: TT-C5-LED-E1-WQ-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.5	3.8			
FM	(30°-60°)	1838.8	21.1			
FH	(60°-80°)	1926.1	22.1			G2/5000
FVH	(80°-90°)	262.5	3.0			G3/500
BL	(0°-30°)	333.5	3.8	B1/500		
BM	(30°-60°)	1838.8	21.1	B2/2500		
BH	(60°-80°)	1926.1	22.1	B3/2500		G2/5000
BVH	(80°-90°)	262.5	3.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short



REPORT NUMBER: P197792

CATALOG NUMBER: TT-C5-LED-E1-WQ-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9
2.5°	621.5	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	621.5
5°	632.1	632.1	630.6	629.0	629.0	627.5	627.5	627.5	629.0	630.6	630.6
7.5°	636.6	635.1	635.1	633.6	632.1	632.1	630.6	632.1	633.6	635.1	635.1
10°	645.6	647.1	648.7	650.2	651.7	650.2	647.1	650.2	650.2	648.7	645.6
12.5°	666.8	666.8	671.3	675.8	675.8	674.3	669.8	675.8	674.3	669.8	666.8
15°	695.4	696.9	696.9	701.5	698.4	695.4	690.9	698.4	698.4	695.4	693.9
17.5°	736.1	733.1	728.6	731.6	734.6	734.6	725.6	734.6	728.6	725.6	730.1
20°	781.4	779.9	778.4	781.4	793.5	788.9	784.4	790.5	782.9	772.4	775.4
22.5°	816.1	819.1	823.6	828.2	840.2	837.2	828.2	838.7	826.7	823.6	814.6
25°	859.8	858.3	870.4	870.4	877.9	873.4	862.9	877.9	865.9	870.4	856.8
27.5°	903.6	902.1	911.1	911.1	924.7	923.2	909.6	924.7	911.1	908.1	903.6
30°	953.4	950.4	951.9	963.9	983.5	983.5	971.5	979.0	963.9	948.8	947.3
32.5°	1006.2	1000.1	1009.2	1028.8	1039.4	1036.3	1024.3	1036.3	1031.8	1006.2	1000.1
35°	1057.5	1065.0	1081.6	1098.2	1117.8	1120.8	1110.3	1116.3	1099.7	1080.1	1065.0
37.5°	1143.4	1155.5	1176.6	1215.9	1246.0	1255.1	1246.0	1243.0	1218.9	1175.1	1154.0
40°	1264.1	1267.1	1295.8	1354.6	1386.3	1392.3	1375.8	1380.3	1351.6	1303.3	1258.1
42.5°	1362.2	1357.7	1408.9	1461.7	1494.9	1508.5	1490.4	1496.4	1457.2	1410.4	1360.7
45°	1442.1	1446.7	1499.5	1552.2	1605.0	1630.7	1617.1	1606.6	1549.2	1496.4	1452.7
47.5°	1516.0	1537.2	1573.4	1650.3	1716.7	1745.3	1734.8	1719.7	1659.4	1571.9	1538.7
50°	1609.6	1623.1	1666.9	1766.5	1828.3	1838.9	1829.8	1829.8	1772.5	1671.4	1626.2
52.5°	1710.6	1712.1	1777.0	1879.6	1958.0	2000.3	1992.7	1971.6	1881.1	1792.1	1718.2
55°	1831.3	1814.7	1915.8	2022.9	2140.6	2210.0	2206.9	2161.7	2038.0	1920.3	1822.3
57.5°	1899.2	1902.2	1994.2	2155.6	2268.8	2288.4	2299.0	2271.8	2178.3	1997.3	1920.3
60°	1914.3	1950.5	2035.0	2213.0	2302.0	2359.3	2362.3	2317.1	2219.0	2047.0	1965.6
62.5°	1920.3	1964.1	2068.2	2210.0	2360.8	2416.6	2427.2	2380.4	2222.0	2072.7	1953.5
65°	1929.4	1935.4	2071.2	2244.6	2368.3	2416.6	2428.7	2380.4	2252.2	2062.1	1930.9
67.5°	1891.7	1876.6	1995.7	2184.3	2305.0	2362.3	2375.9	2318.6	2188.8	1998.8	1896.2
70°	1755.9	1761.9	1894.7	2074.2	2206.9	2261.2	2270.3	2208.4	2072.7	1908.3	1789.1
72.5°	1612.6	1627.7	1739.3	1920.3	2039.5	2092.3	2108.9	2044.0	1929.4	1760.4	1636.7
75°	1413.5	1442.1	1549.2	1712.1	1831.3	1911.3	1927.9	1843.4	1706.1	1559.8	1440.6
77.5°	1193.2	1212.8	1315.4	1455.7	1583.9	1624.7	1639.7	1599.0	1463.2	1333.5	1221.9
80°	938.3	945.8	1049.9	1161.5	1261.1	1294.3	1316.9	1265.6	1173.6	1056.0	947.3
82.5°	644.1	654.7	728.6	831.2	918.7	932.3	960.9	918.7	832.7	742.2	660.7
85°	334.9	350.0	407.3	463.1	531.0	547.6	556.6	525.0	479.7	405.8	351.5
87.5°	72.4	80.0	89.0	114.6	137.3	156.9	170.5	141.8	113.1	95.0	72.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P197792

CATALOG NUMBER: TT-C5-LED-E1-WQ-7060

CANDELA DISTRIBUTION (continued):

	90°
0°	610.9
2.5°	620.0
5°	630.6
7.5°	635.1
10°	645.6
12.5°	665.2
15°	695.4
17.5°	733.1
20°	773.9
22.5°	810.1
25°	853.8
27.5°	903.6
30°	954.9
32.5°	997.1
35°	1056.0
37.5°	1152.5
40°	1268.6
42.5°	1362.2
45°	1439.1
47.5°	1525.1
50°	1611.1
52.5°	1721.2
55°	1829.8
57.5°	1885.6
60°	1920.3
62.5°	1947.5
65°	1950.5
67.5°	1872.0
70°	1752.9
72.5°	1617.1
75°	1418.0
77.5°	1208.3
80°	938.3
82.5°	659.2
85°	345.4
87.5°	67.9
90°	0.0

(END OF REPORT)