

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: LUMARK

Report Number: P511242

Luminaire Tested: **PRV-P-PA1C-8540-U-T2U**

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-P-PA1C-8540-U-T2U
Description: PREVAIL AREA AND WALL LUMINAIRE
(1) 85 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7419.7 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 72.1
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: 28.75 FT



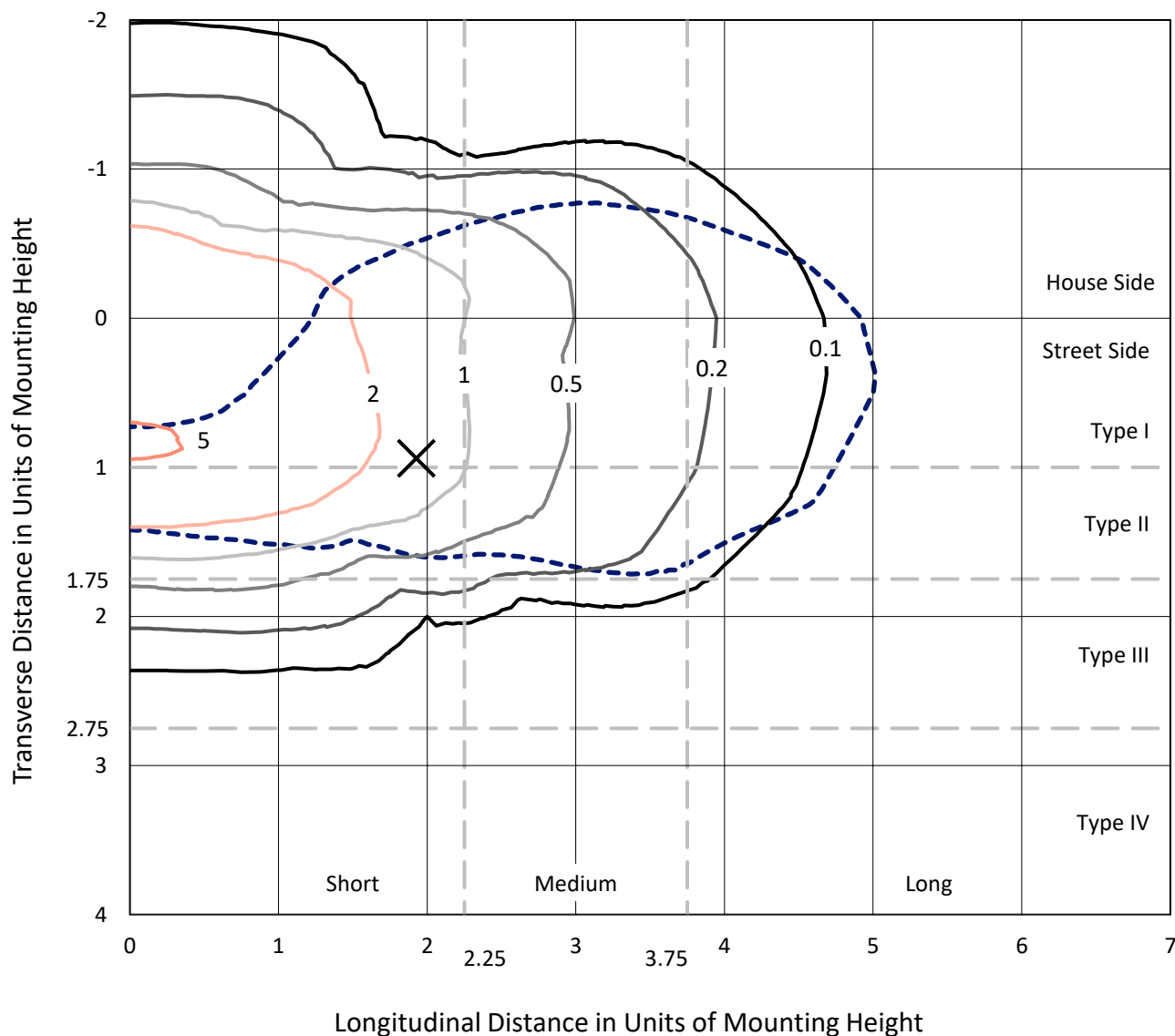
REPORT NUMBER: P511242

CATALOG NUMBER: PRV-P-PA1C-8540-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



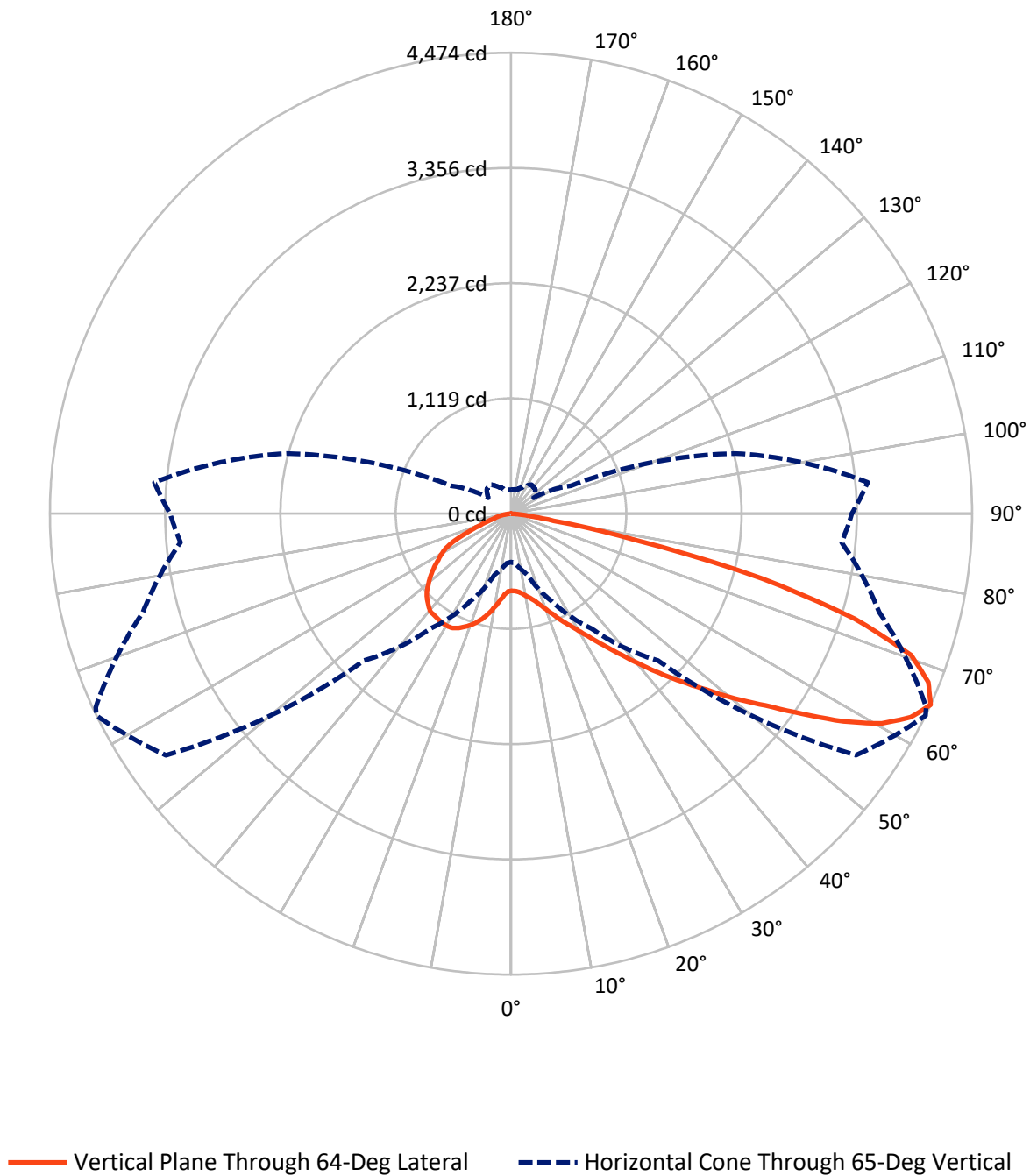
Based on 15 foot mounting height. Maximum calculated value = 5.3 fc

Type II - Short - N/A

REPORT NUMBER: P511242

CATALOG NUMBER: PRV-P-PA1C-8540-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P511242

CATALOG NUMBER: PRV-P-PA1C-8540-U-T2U

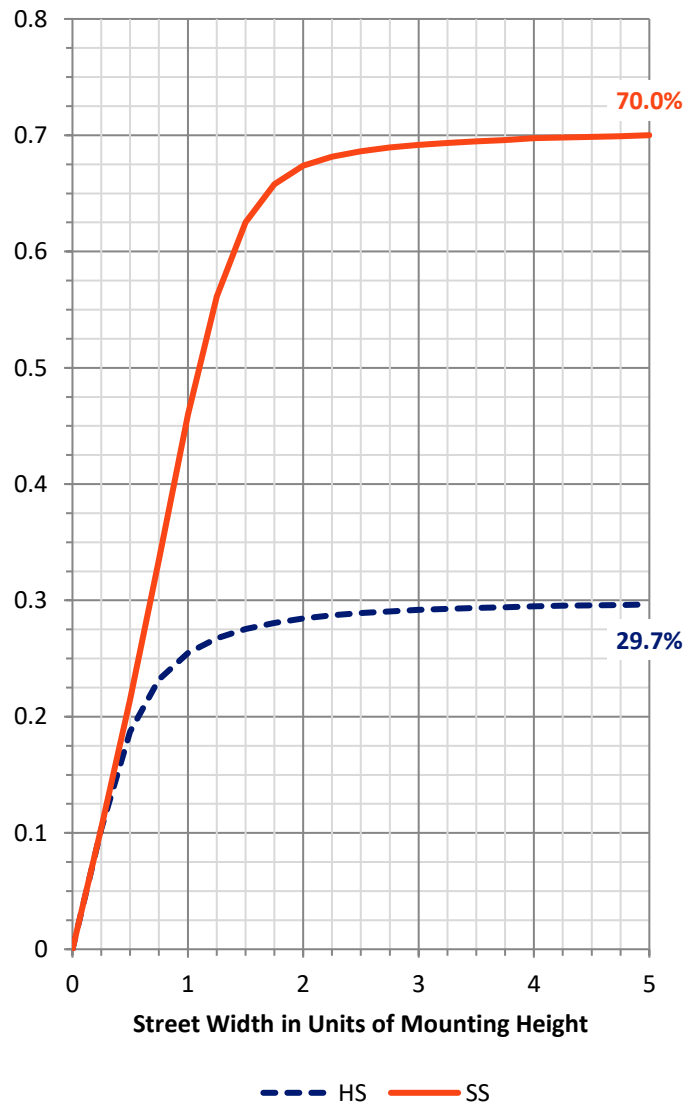
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2217.1	0.0	2217.1
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	5202.6	0.0	5202.6
	% Fixture	70.1	0.0	70.1
Total	Lumens	7419.7	0.0	7419.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	1.0
10°-20°	268.5	3.6
20°-30°	519.8	7.0
30°-40°	831.1	11.2
40°-50°	1332.3	18.0
50°-60°	1745.5	23.5
60°-70°	1585.8	21.4
70°-80°	947.1	12.8
80°-90°	112.3	1.5
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°	7419.7	100.0
0°-180°	7419.7	100.0

Coefficient of Utilization



REPORT NUMBER: P511242

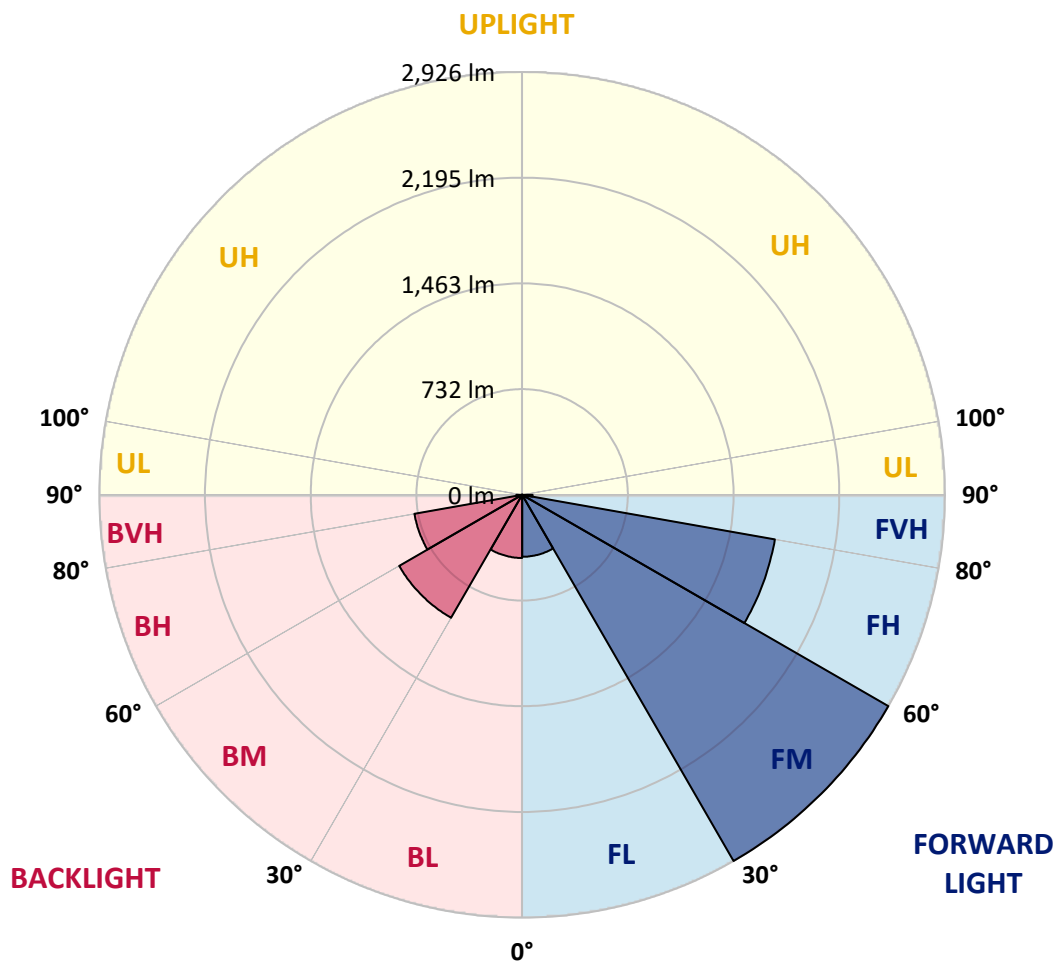
CATALOG NUMBER: PRV-P-PA1C-8540-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	428.6	5.8			
FM	(30°-60°)	2926.1	39.4			
FH	(60°-80°)	1775.9	23.9			G1/1800
FVH	(80°-90°)	72.0	1.0			G1/100
BL	(0°-30°)	437.0	5.9	B1/500		
BM	(30°-60°)	982.8	13.2	B1/1000		
BH	(60°-80°)	757.0	10.2	B2/1000		G2/1000
BVH	(80°-90°)	40.3	0.5			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 II Short



REPORT NUMBER: P511242

CATALOG NUMBER: PRV-P-PA1C-8540-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3
2.5°	751.0	749.3	754.3	754.3	754.3	752.6	751.0	752.6	752.6	751.0	752.6
5°	747.7	747.7	752.6	759.2	759.2	764.1	760.8	762.5	764.1	765.8	765.8
7.5°	726.2	731.2	736.1	746.0	755.9	769.1	777.4	783.9	785.6	792.2	797.2
10°	737.7	736.1	744.3	751.0	760.8	782.3	795.5	813.7	810.4	828.5	836.8
12.5°	759.2	759.2	765.8	777.4	790.6	810.4	820.3	841.7	843.4	859.9	876.4
15°	785.6	785.6	797.2	810.4	830.1	856.6	869.8	879.7	887.9	901.2	917.7
17.5°	833.5	840.1	841.7	855.0	871.4	904.4	925.9	934.1	934.1	945.7	960.6
20°	924.3	937.5	925.9	924.3	927.5	962.2	983.7	998.5	996.8	1000.2	1001.8
22.5°	1048.0	1056.3	1044.8	1031.5	1011.7	1033.2	1053.0	1069.5	1059.6	1059.6	1044.8
25°	1209.8	1199.9	1190.0	1152.0	1115.7	1107.5	1135.5	1155.3	1150.4	1125.6	1092.6
27.5°	1378.2	1364.9	1341.8	1300.6	1241.1	1209.8	1216.4	1232.9	1239.5	1198.2	1145.4
30°	1539.8	1543.1	1515.1	1457.3	1381.4	1328.6	1320.4	1331.9	1328.6	1274.2	1198.2
32.5°	1769.3	1747.8	1724.7	1645.5	1533.3	1470.6	1444.2	1445.8	1445.8	1364.9	1259.3
35°	2026.7	2030.1	1962.4	1851.8	1714.8	1627.3	1586.0	1582.8	1574.5	1483.8	1346.8
37.5°	2394.8	2371.7	2289.2	2137.4	1942.5	1818.8	1747.8	1737.9	1729.6	1619.1	1457.3
40°	2715.0	2718.3	2632.4	2477.3	2228.1	2023.4	1937.6	1919.4	1916.2	1767.6	1584.4
42.5°	2929.5	2918.0	2914.7	2823.9	2579.7	2358.5	2170.3	2117.5	2092.8	1945.9	1736.3
45°	3030.2	3035.1	3050.0	3066.5	2952.6	2741.4	2467.4	2325.5	2304.1	2127.4	1901.3
47.5°	3089.6	3101.1	3147.4	3196.9	3248.0	3172.2	2774.4	2554.9	2536.8	2317.2	2071.3
50°	3053.3	3045.1	3155.6	3294.3	3457.6	3606.3	3127.6	2822.2	2799.1	2548.3	2261.1
52.5°	2672.1	2711.7	2956.0	3266.2	3589.7	3878.5	3530.3	3091.3	3071.5	2766.2	2431.1
55°	2158.8	2188.5	2444.3	2936.2	3601.3	4051.9	3842.3	3428.0	3401.6	2984.0	2625.9
57.5°	1637.3	1714.8	2000.3	2389.9	3259.6	4081.5	4083.2	3805.9	3716.8	3200.2	2800.8
60°	1099.2	1130.6	1482.1	1858.4	2617.6	3812.5	4205.3	4134.4	4063.4	3409.8	2962.6
62.5°	744.3	751.0	962.2	1404.5	1936.0	3177.1	4211.9	4353.9	4281.3	3579.8	3094.6
65°	470.3	483.6	612.3	940.8	1361.6	2016.9	4088.1	4474.4	4446.3	3698.7	3220.0
67.5°	358.1	361.4	417.6	569.4	952.3	1213.1	3535.2	4367.1	4375.3	3786.1	3279.4
70°	305.4	310.3	356.5	394.5	655.2	651.9	2266.1	4119.5	4149.2	3817.5	3312.5
72.5°	242.7	250.9	302.0	363.1	480.3	444.0	968.8	3487.4	3576.5	3713.5	3287.7
75°	178.2	183.2	227.8	295.4	376.3	341.6	384.5	2518.6	2752.9	3258.0	3127.6
77.5°	127.1	135.3	170.0	219.5	341.6	247.6	239.3	1241.1	1492.0	2475.7	2688.6
80°	89.1	87.5	113.8	148.5	212.9	184.9	142.0	419.2	538.1	1417.7	1749.5
82.5°	44.6	46.2	66.0	92.4	120.5	146.9	79.2	166.7	193.1	582.6	653.6
85°	19.8	19.8	28.0	33.0	54.5	54.5	38.0	61.1	67.7	160.1	59.4
87.5°	0.0	1.6	1.6	3.3	3.3	4.9	6.6	8.2	9.9	9.9	8.2
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: P511242

CATALOG NUMBER: PRV-P-PA1C-8540-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3	749.3
2.5°	754.3	754.3	754.3	754.3	759.2	762.5	767.5	770.8	769.1	770.8	770.8
5°	769.1	770.8	777.4	785.6	797.2	807.0	823.6	826.8	835.1	831.9	840.1
7.5°	800.5	808.7	820.3	840.1	861.5	879.7	894.6	904.4	911.0	916.0	911.0
10°	846.7	856.6	879.7	907.7	934.1	958.9	968.8	978.8	977.0	972.1	970.5
12.5°	887.9	901.2	937.5	972.1	1006.8	1026.6	1018.3	1006.8	996.8	990.3	988.6
15°	930.8	949.0	988.6	1038.1	1066.2	1064.6	1041.5	1023.3	1021.7	1018.3	1015.0
17.5°	973.7	996.8	1048.0	1094.2	1112.4	1082.7	1059.6	1051.3	1054.6	1051.3	1049.7
20°	1013.4	1034.8	1094.2	1143.7	1135.5	1095.9	1081.0	1074.4	1066.2	1061.2	1057.9
22.5°	1051.3	1074.4	1142.1	1186.6	1158.6	1107.5	1089.3	1066.2	1057.9	1048.0	1044.8
25°	1087.7	1114.1	1181.7	1226.3	1158.6	1102.5	1064.6	1034.8	1016.6	1006.8	1006.8
27.5°	1140.4	1158.6	1221.3	1257.7	1145.4	1074.4	1006.8	965.5	937.5	935.8	935.8
30°	1180.1	1190.0	1254.4	1269.2	1115.7	1010.1	924.3	863.2	833.5	825.2	823.6
32.5°	1232.9	1229.5	1282.4	1272.5	1077.7	929.2	815.3	746.0	708.1	696.5	689.9
35°	1298.9	1294.0	1340.2	1269.2	1024.9	833.5	694.8	615.6	589.2	569.4	571.0
37.5°	1406.2	1373.1	1429.3	1267.5	953.9	708.1	567.8	519.9	485.2	465.4	467.1
40°	1518.4	1470.6	1530.0	1270.8	871.4	584.3	481.9	447.2	414.3	384.5	387.8
42.5°	1655.4	1597.6	1637.3	1244.4	774.1	486.9	429.1	404.3	376.3	354.9	358.1
45°	1808.9	1726.4	1737.9	1218.0	663.5	434.1	412.6	394.5	369.7	341.6	343.3
47.5°	1977.2	1883.2	1813.8	1176.8	576.0	422.5	427.4	399.4	344.9	310.3	310.3
50°	2145.6	2051.5	1876.5	1112.4	519.9	450.5	425.8	358.1	315.2	293.8	290.5
52.5°	2318.9	2257.8	1912.9	1048.0	503.4	448.9	391.2	338.3	302.0	277.3	274.0
55°	2511.9	2480.6	1967.4	977.0	455.5	432.5	374.7	323.5	283.9	264.1	259.1
57.5°	2693.5	2736.4	2018.5	901.2	389.5	394.5	356.5	311.9	277.3	262.4	259.1
60°	2901.5	2995.5	2086.1	840.1	336.7	366.4	349.9	318.5	283.9	265.8	262.4
62.5°	3083.1	3241.5	2172.0	764.1	300.4	349.9	353.2	310.3	272.3	255.8	250.9
65°	3307.5	3474.2	2256.1	642.1	269.0	333.4	343.3	285.6	244.3	232.7	227.8
67.5°	3467.6	3617.8	2300.7	467.1	239.3	300.4	313.6	254.2	211.3	204.7	201.4
70°	3560.0	3583.1	2277.6	325.1	208.0	254.2	278.9	222.8	186.5	181.6	176.6
72.5°	3492.3	3348.7	2112.5	226.1	179.9	217.8	242.7	199.7	156.8	150.2	146.9
75°	3215.1	2903.1	1696.7	166.7	156.8	184.9	204.7	168.3	125.4	113.8	112.2
77.5°	2612.6	2214.9	1095.9	132.0	130.4	150.2	163.4	132.0	95.8	90.7	85.8
80°	1587.8	1353.3	465.4	99.0	99.0	108.9	120.5	104.0	72.6	62.7	61.1
82.5°	595.8	463.8	153.5	64.4	62.7	77.6	94.0	70.9	41.3	34.7	31.3
85°	44.6	54.5	56.1	31.3	28.0	31.3	38.0	19.8	11.6	8.2	8.2
87.5°	6.6	6.6	6.6	4.9	3.3	1.6	1.6	1.6	1.6	1.6	1.6
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)