

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: P511318

Luminaire Tested: **PRV-P-PA1D-740-U-T4W**

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-P-PA1D-740-U-T4W
Description: PREVAIL AREA AND WALL LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10906 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

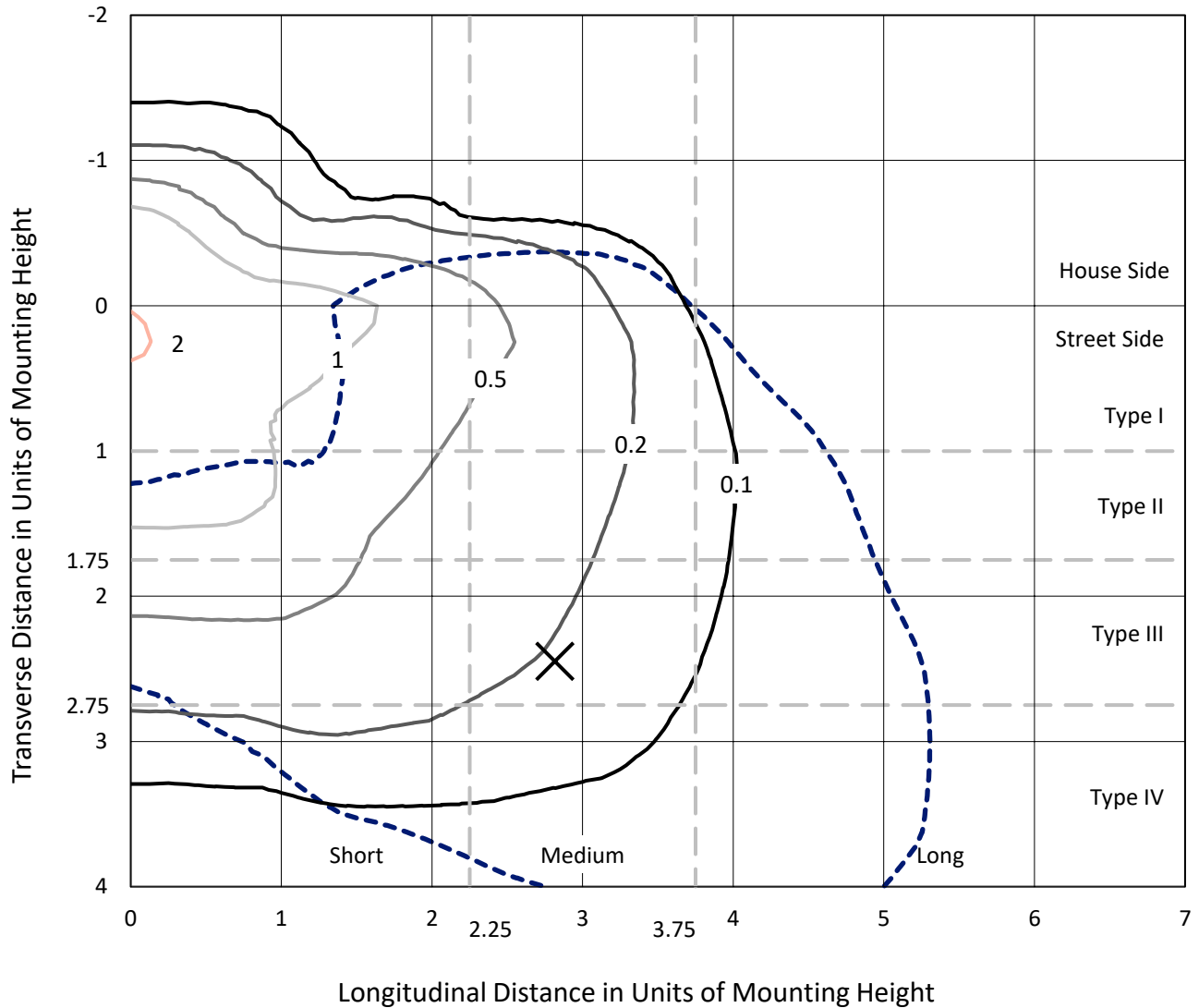
Input Watts (W): 93.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

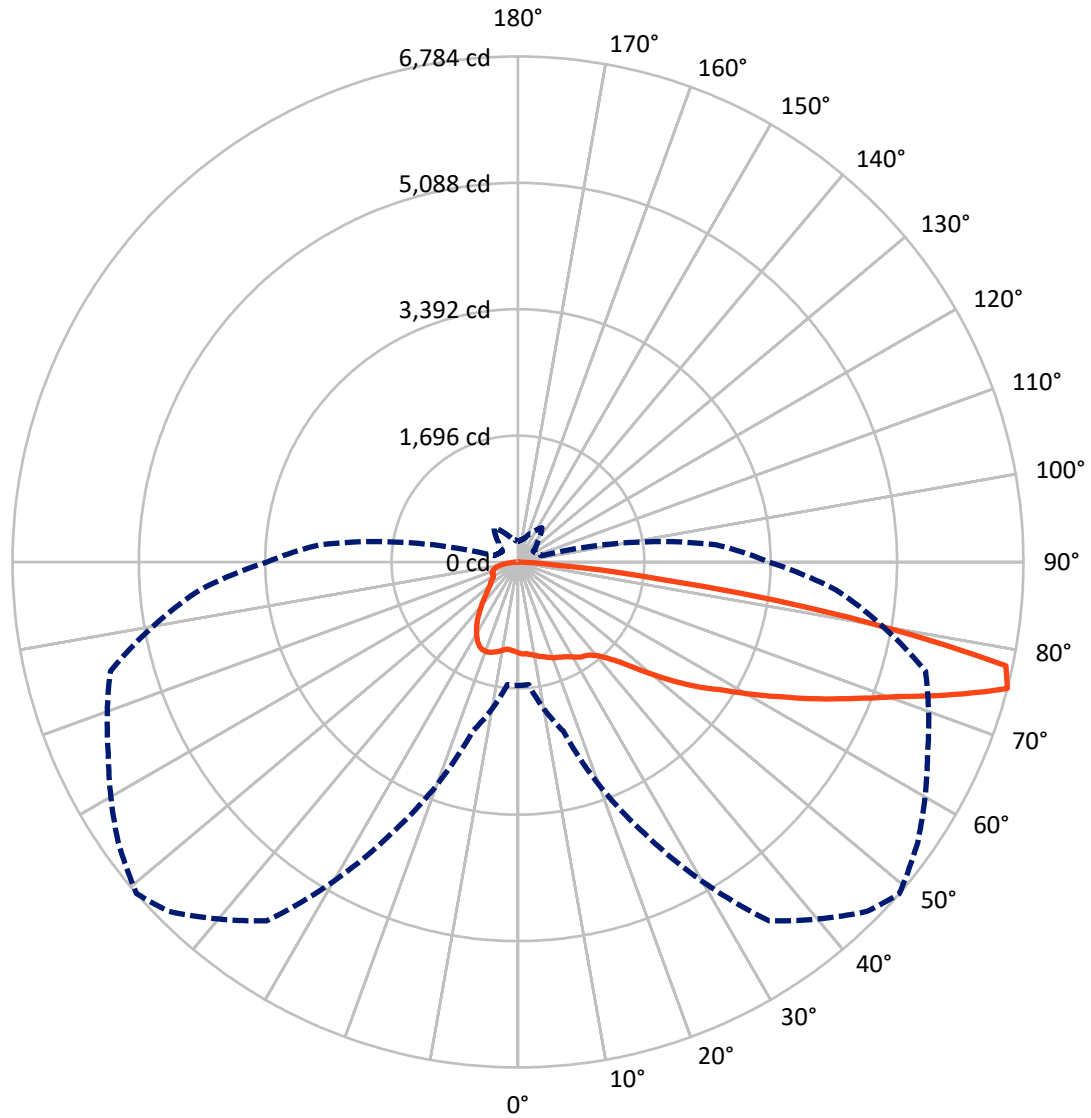
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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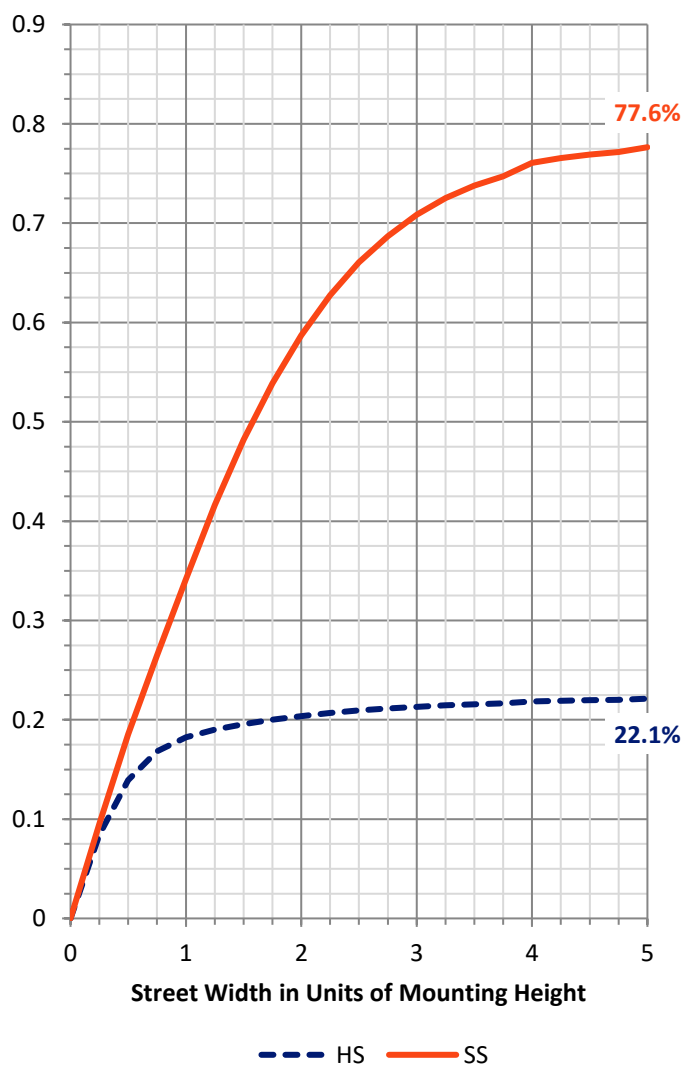
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2442.5	0.0	2442.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	8463.4	0.0	8463.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	10906.0	0.0	10906.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	1.1
10°-20°	368.0	3.4
20°-30°	619.5	5.7
30°-40°	839.5	7.7
40°-50°	1232.0	11.3
50°-60°	1963.1	18.0
60°-70°	2859.2	26.2
70°-80°	2586.9	23.7
80°-90°	320.4	2.9
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°	10906.0	100.0
0°-180°	10906.0	100.0

Coefficient of Utilization



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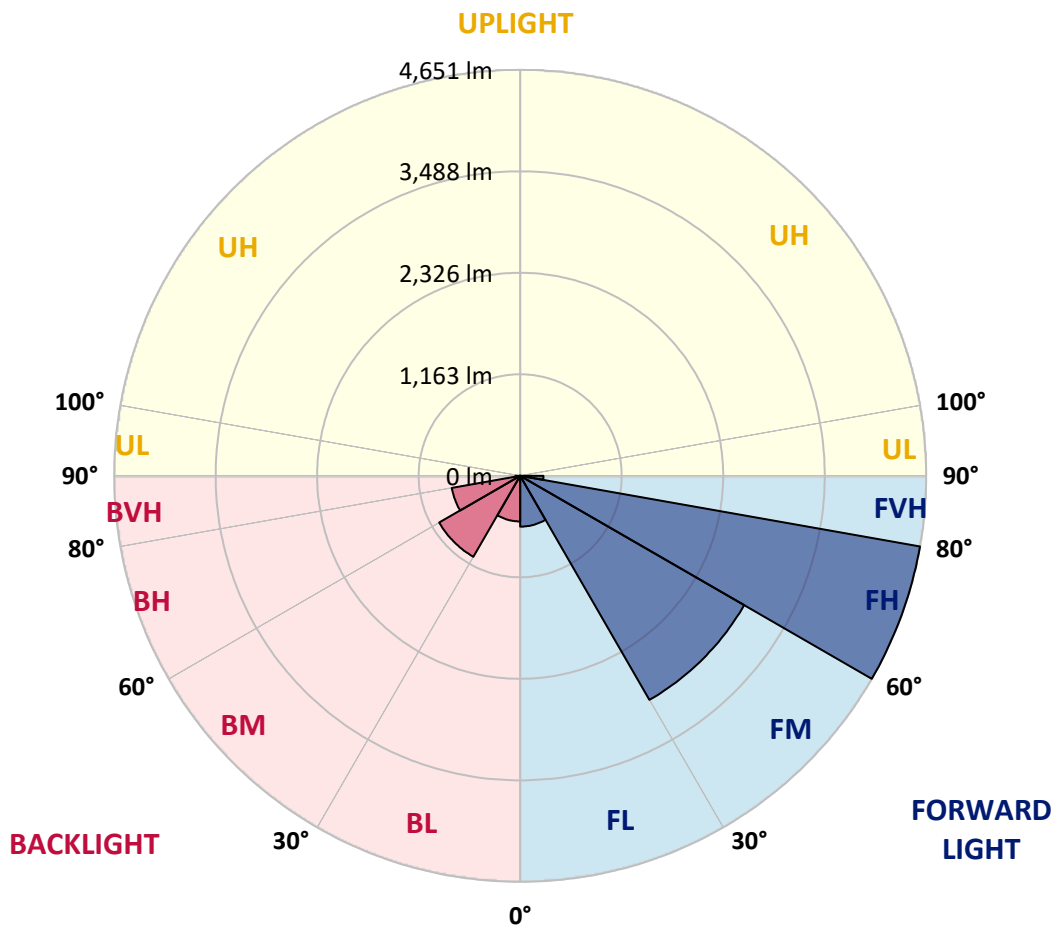
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	582.1	5.3			
FM (30°-60°)	2963.5	27.2			
FH (60°-80°)	4651.3	42.6			G2/5000
FVH (80°-90°)	266.6	2.4			G3/500
BL (0°-30°)	522.8	4.8	B2/1000		
BM (30°-60°)	1071.0	9.8	B2/2500		
BH (60°-80°)	794.8	7.3	B2/1000		G2/1000
BVH (80°-90°)	53.9	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4
2.5°	1259.1	1254.0	1249.0	1249.0	1241.5	1239.0	1236.5	1234.0	1218.9	1221.4	1211.4
5°	1299.2	1291.7	1286.6	1281.6	1266.6	1244.0	1236.5	1234.0	1208.9	1193.8	1186.3
7.5°	1356.9	1359.4	1331.8	1316.7	1301.7	1264.1	1256.5	1236.5	1208.9	1188.8	1176.3
10°	1417.1	1409.5	1387.0	1359.4	1329.3	1286.6	1274.1	1256.5	1234.0	1206.4	1191.3
12.5°	1459.7	1452.2	1424.6	1389.5	1346.8	1309.2	1301.7	1289.2	1254.0	1223.9	1208.9
15°	1484.8	1492.3	1459.7	1409.5	1361.9	1334.3	1319.2	1311.7	1281.6	1249.0	1221.4
17.5°	1512.4	1509.9	1489.8	1429.6	1387.0	1354.4	1346.8	1334.3	1296.7	1266.6	1239.0
20°	1524.9	1534.9	1517.4	1449.7	1399.5	1369.4	1371.9	1361.9	1326.8	1289.2	1259.1
22.5°	1532.4	1537.5	1529.9	1462.2	1414.6	1392.0	1389.5	1382.0	1346.8	1314.2	1279.1
25°	1529.9	1532.4	1545.0	1464.7	1429.6	1412.0	1412.0	1402.0	1374.4	1344.3	1309.2
27.5°	1532.4	1527.4	1545.0	1472.2	1449.7	1442.1	1439.6	1437.1	1422.1	1379.4	1341.8
30°	1522.4	1537.5	1542.5	1482.3	1479.8	1477.3	1479.8	1482.3	1464.7	1419.6	1379.4
32.5°	1524.9	1519.9	1545.0	1494.8	1497.3	1517.4	1524.9	1519.9	1492.3	1454.7	1417.1
35°	1567.5	1580.1	1585.1	1517.4	1514.9	1527.4	1545.0	1540.0	1532.4	1504.8	1482.3
37.5°	1790.8	1800.8	1773.2	1610.2	1565.0	1562.5	1585.1	1590.1	1595.1	1582.6	1577.6
40°	2139.4	2126.9	2121.8	1810.8	1652.8	1635.3	1655.3	1680.4	1687.9	1695.5	1708.0
42.5°	2518.1	2533.2	2535.7	2094.2	1858.5	1753.1	1763.2	1795.8	1838.4	1848.5	1903.6
45°	2859.2	2886.8	2942.0	2470.5	2139.4	1948.8	1913.7	1941.3	2014.0	2076.7	2167.0
47.5°	3100.0	3117.5	3205.3	2864.2	2493.0	2156.9	2131.9	2131.9	2234.7	2320.0	2473.0
50°	3340.8	3330.7	3365.8	3268.0	2982.1	2467.9	2395.2	2375.2	2510.6	2631.0	2804.0
52.5°	3523.9	3541.4	3596.6	3636.7	3401.0	2806.5	2676.1	2623.5	2796.5	2942.0	3182.8
55°	3654.3	3661.8	3787.2	3945.2	3802.2	3107.5	2964.5	2926.9	3132.6	3298.1	3616.6
57.5°	3829.8	3885.0	4028.0	4316.4	4291.3	3390.9	3242.9	3273.0	3478.7	3659.3	4105.7
60°	4153.4	4135.8	4301.4	4690.1	4552.2	3696.9	3601.6	3619.2	3827.3	4078.1	4707.7
62.5°	4293.8	4301.4	4532.1	5164.1	4913.3	4025.5	3990.4	4030.5	4228.6	4476.9	5467.6
65°	4095.7	4150.9	4665.0	5229.3	5272.0	4451.8	4426.8	4489.5	4629.9	4956.0	6097.1
67.5°	3564.0	3629.2	4464.4	5392.4	5570.4	4893.3	4883.2	4923.4	5013.6	5339.7	6521.0
70°	3290.6	3355.8	3912.6	5462.6	5811.2	5417.5	5404.9	5387.4	5447.5	5710.9	6576.2
72.5°	2816.6	2846.7	3350.8	5171.7	6029.4	6047.0	6092.1	5956.7	5856.4	5936.6	5924.1
75°	1657.8	1652.8	2350.1	4020.5	5878.9	6631.4	6784.4	6551.1	6067.0	5663.2	4283.8
77.5°	571.8	549.3	800.1	1833.4	4268.8	6415.7	6696.6	6353.0	5515.3	4479.4	2385.2
80°	160.5	173.1	258.3	612.0	1988.9	3957.7	4509.5	4760.3	3596.6	1883.6	712.3
82.5°	72.7	75.2	135.4	250.8	734.9	1941.3	2011.5	1705.5	1216.4	476.5	175.6
85°	20.1	20.1	42.6	90.3	250.8	448.9	491.6	431.4	250.8	160.5	60.2
87.5°	2.5	2.5	2.5	5.0	7.5	12.5	10.0	27.6	22.6	20.1	10.0
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°	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4	1221.4
2.5°	1213.9	1211.4	1206.4	1203.9	1201.4	1201.4	1201.4	1203.9	1198.9	1208.9	1208.9
5°	1183.8	1181.3	1173.8	1178.8	1178.8	1188.8	1193.8	1198.9	1206.4	1211.4	1213.9
7.5°	1171.3	1173.8	1171.3	1166.3	1171.3	1181.3	1201.4	1218.9	1226.5	1234.0	1236.5
10°	1186.3	1186.3	1178.8	1188.8	1191.3	1201.4	1216.4	1236.5	1259.1	1266.6	1266.6
12.5°	1196.4	1198.9	1193.8	1213.9	1218.9	1231.5	1241.5	1251.5	1271.6	1284.1	1286.6
15°	1208.9	1206.4	1213.9	1231.5	1241.5	1251.5	1259.1	1254.0	1274.1	1284.1	1284.1
17.5°	1226.5	1229.0	1239.0	1261.6	1266.6	1269.1	1266.6	1254.0	1269.1	1279.1	1284.1
20°	1244.0	1249.0	1264.1	1281.6	1281.6	1271.6	1261.6	1249.0	1256.5	1269.1	1279.1
22.5°	1266.6	1274.1	1284.1	1296.7	1284.1	1261.6	1249.0	1236.5	1244.0	1264.1	1271.6
25°	1286.6	1294.2	1294.2	1289.2	1256.5	1236.5	1231.5	1231.5	1234.0	1256.5	1259.1
27.5°	1321.8	1321.8	1304.2	1269.1	1211.4	1178.8	1191.3	1201.4	1223.9	1241.5	1246.5
30°	1359.4	1349.3	1314.2	1236.5	1146.2	1113.6	1128.6	1156.2	1186.3	1211.4	1226.5
32.5°	1407.0	1399.5	1329.3	1198.9	1076.0	1033.3	1048.4	1088.5	1131.1	1161.2	1166.3
35°	1477.3	1459.7	1344.3	1148.7	985.7	945.5	953.1	998.2	1043.4	1076.0	1093.5
37.5°	1567.5	1550.0	1356.9	1083.5	892.9	850.2	847.7	890.4	925.5	955.6	968.1
40°	1723.1	1680.4	1369.4	1000.7	802.6	752.4	752.4	767.5	780.0	800.1	810.1
42.5°	1921.2	1845.9	1389.5	905.4	714.8	669.7	652.1	659.6	644.6	627.0	629.5
45°	2189.6	2059.1	1429.6	807.6	634.5	594.4	579.4	559.3	529.2	496.6	499.1
47.5°	2503.1	2289.9	1457.2	719.8	564.3	534.2	519.2	494.1	451.5	416.3	413.8
50°	2864.2	2543.2	1492.3	642.1	501.6	494.1	484.1	446.4	398.8	366.2	361.2
52.5°	3242.9	2789.0	1527.4	584.4	459.0	471.5	454.0	413.8	361.2	328.6	326.1
55°	3671.8	3102.5	1597.6	524.2	426.4	446.4	433.9	388.8	336.1	313.5	311.0
57.5°	4176.0	3433.6	1705.5	476.5	398.8	413.8	411.3	371.2	336.1	321.0	321.0
60°	4705.2	3859.9	1758.2	441.4	371.2	388.8	408.8	378.7	353.6	341.1	338.6
62.5°	5224.3	4263.7	1600.2	411.3	351.1	381.2	421.4	411.3	373.7	371.2	368.7
65°	5613.1	4564.7	1211.4	381.2	336.1	396.3	476.5	443.9	388.8	383.7	381.2
67.5°	5803.7	4717.7	810.1	358.7	323.5	413.8	526.7	459.0	381.2	368.7	356.1
70°	5567.9	4479.4	539.2	331.1	303.5	406.3	559.3	461.5	366.2	348.6	331.1
72.5°	4755.3	3864.9	411.3	306.0	283.4	391.3	566.8	448.9	351.1	316.0	303.5
75°	3368.3	2666.1	331.1	275.9	250.8	371.2	561.8	428.9	326.1	288.4	278.4
77.5°	1715.5	1196.4	258.3	238.3	213.2	348.6	539.2	351.1	245.8	213.2	208.2
80°	476.5	356.1	200.6	188.1	165.5	288.4	413.8	280.9	198.1	175.6	165.5
82.5°	165.5	150.5	137.9	120.4	117.9	233.3	356.1	228.2	145.5	107.8	105.3
85°	60.2	57.7	65.2	65.2	67.7	120.4	185.6	102.8	62.7	45.1	42.6
87.5°	7.5	7.5	10.0	7.5	10.0	2.5	2.5	2.5	2.5	2.5	2.5
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)