

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: P622603

Luminaire Tested: **PRV-M-PA6A-8540-U-T2R**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6A-8540-U-T2R
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32581.5 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 273.8
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

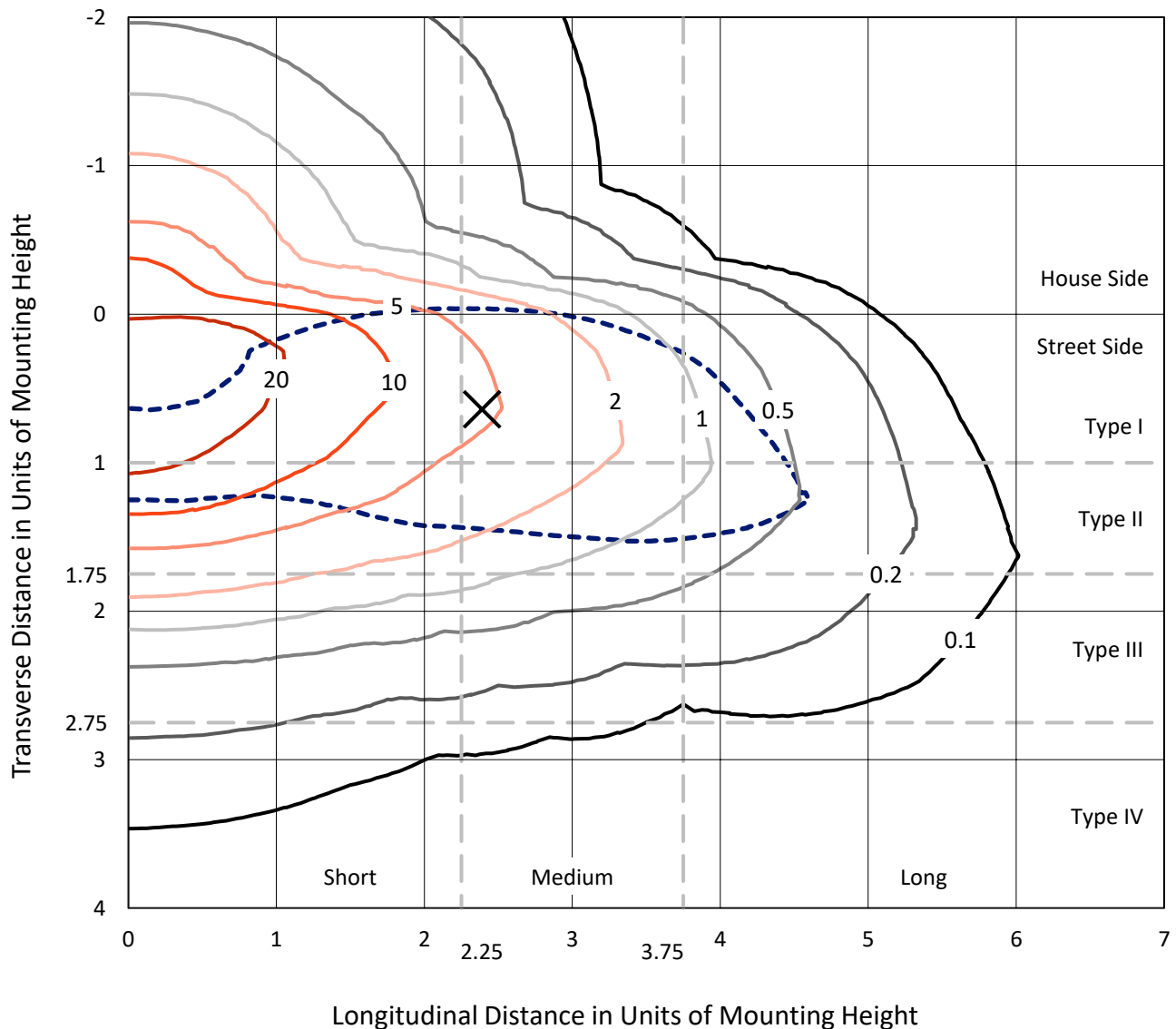


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

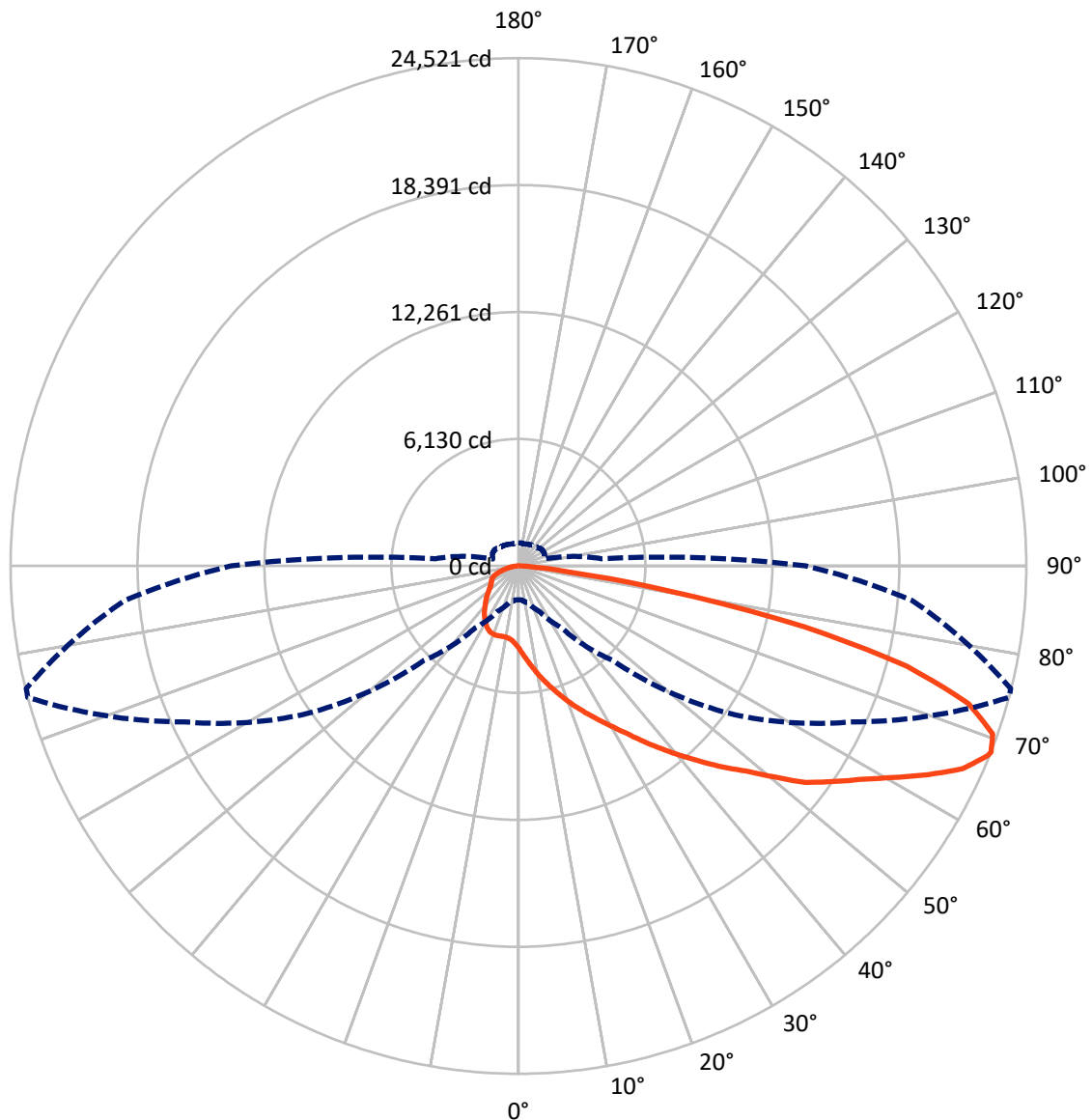


Based on 15 foot mounting height. Maximum calculated value = 32.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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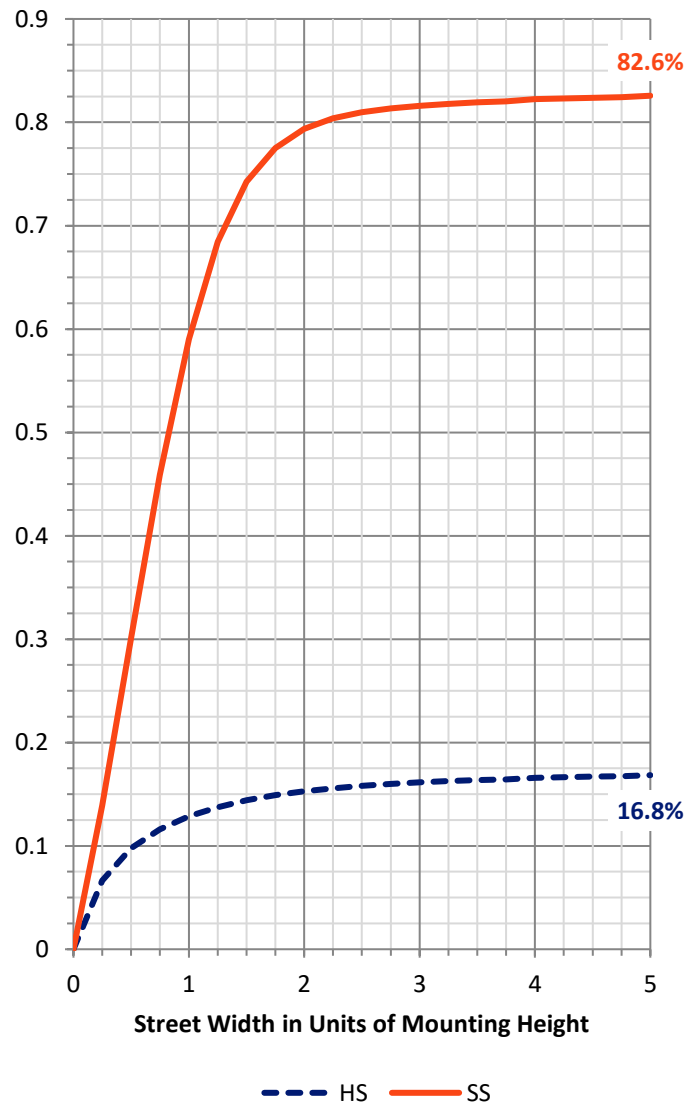
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5577.5	0.0	5577.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	27003.9	0.0	27003.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	32581.5	0.0	32581.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.4	1.3
10°-20°	1432.1	4.4
20°-30°	2651.9	8.1
30°-40°	4321.7	13.3
40°-50°	6092.0	18.7
50°-60°	7006.7	21.5
60°-70°	6371.8	19.6
70°-80°	3699.8	11.4
80°-90°	586.9	1.8
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°	32581.5	100.0
0°-180°	32581.5	100.0

Coefficient of Utilization



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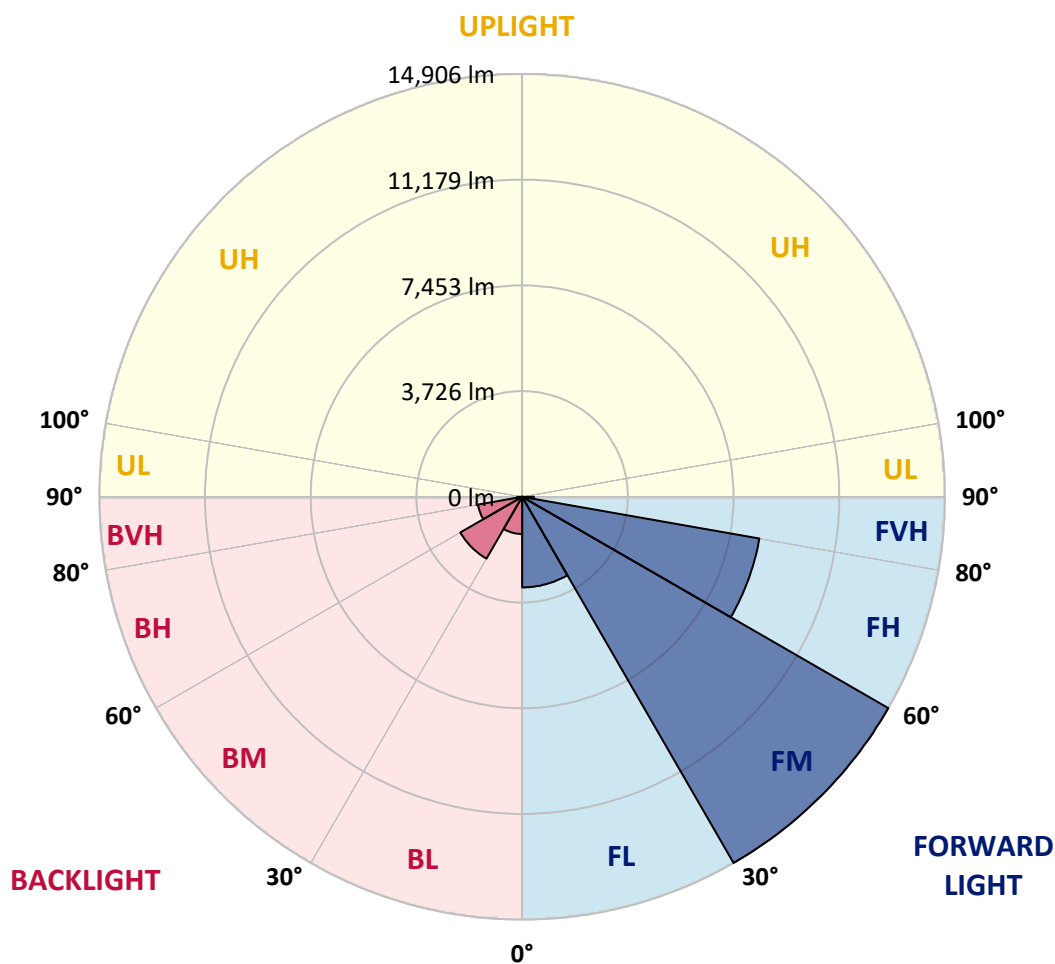
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3192.6	9.8			
FM	(30°-60°)	14905.8	45.7			
FH	(60°-80°)	8490.9	26.1			G4/12000
FVH	(80°-90°)	414.7	1.3			G3/500
BL	(0°-30°)	1309.9	4.0	B3/2500		
BM	(30°-60°)	2514.7	7.7	B3/5000		
BH	(60°-80°)	1580.8	4.9	B3/2500		G3/2500
BVH	(80°-90°)	172.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3980.8	3980.8	3980.8	3980.8	3980.8	3980.8	3980.8	3980.8	3980.8	3980.8	3980.8
2.5°	5064.4	4965.0	4950.9	4938.4	4846.8	4707.4	4617.4	4433.3	4275.2	4249.3	4095.1
5°	5782.4	5725.3	5686.9	5649.3	5538.9	5423.8	5202.3	4915.7	4597.0	4552.4	4239.2
7.5°	6193.5	6144.1	6126.1	6102.6	6025.1	5917.1	5710.4	5379.2	4947.8	4900.8	4424.7
10°	6574.8	6507.4	6494.1	6485.5	6433.8	6333.6	6177.0	5836.4	5335.4	5258.6	4662.0
12.5°	6909.1	6855.9	6863.7	6855.9	6840.2	6781.5	6631.9	6294.5	5734.7	5647.8	4907.8
15°	7133.8	7071.2	7126.8	7191.0	7226.2	7230.1	7092.3	6759.6	6125.3	6047.0	5185.0
17.5°	7248.9	7183.9	7267.7	7391.4	7537.1	7609.9	7552.7	7248.2	6564.6	6465.9	5483.3
20°	7483.1	7404.8	7481.5	7598.9	7803.3	7956.8	8010.8	7754.0	7020.3	6908.3	5797.3
22.5°	7985.7	7900.4	7922.3	7966.2	8125.1	8291.1	8407.0	8265.3	7485.4	7365.6	6121.4
25°	8856.4	8778.9	8677.1	8576.1	8606.7	8683.4	8768.7	8772.7	7968.5	7833.1	6457.3
27.5°	10071.7	9887.6	9706.8	9431.2	9265.9	9189.2	9154.8	9271.4	8475.9	8336.5	6784.6
30°	11292.3	11120.9	10855.4	10503.1	10116.3	9881.4	9643.3	9752.2	9024.8	8868.2	7120.5
32.5°	12348.6	12181.8	11911.7	11514.7	11056.7	10731.7	10259.6	10261.9	9659.8	9464.0	7515.9
35°	13277.3	13050.2	12776.9	12363.5	11915.6	11519.4	10983.8	10808.5	10400.5	10180.5	7994.4
37.5°	13975.7	13736.9	13457.3	13050.2	12652.4	12357.2	11778.6	11409.8	11191.3	10986.2	8521.3
40°	14442.4	14202.8	13950.6	13585.8	13254.5	13080.7	12709.6	12091.0	12016.6	11783.3	9101.5
42.5°	14653.8	14422.8	14262.3	13956.1	13709.5	13688.3	13509.8	12856.8	12904.5	12663.4	9738.9
45°	14566.9	14364.1	14286.5	14123.7	13994.5	14137.8	14316.3	13667.2	13843.4	13614.7	10418.5
47.5°	14151.1	13989.8	14043.8	14047.7	14082.2	14452.5	14954.4	14513.6	14791.6	14566.9	11246.2
50°	13283.5	13197.4	13466.7	13728.3	13958.5	14617.0	15542.5	15443.0	16019.3	15768.0	12283.6
52.5°	11387.1	11507.7	12286.8	12943.7	13595.9	14596.6	16012.3	16467.2	17359.7	17111.6	13310.1
55°	9036.5	9169.6	10155.4	11617.3	12870.1	14358.6	16273.0	17197.0	18382.3	18203.8	14222.3
57.5°	7252.1	7339.8	8038.2	9686.4	11557.0	13795.6	16411.6	17750.5	19439.4	19245.2	15268.4
60°	5770.6	5865.4	6385.3	7637.3	9745.9	12745.6	16381.1	18225.7	20733.7	20563.8	16432.0
62.5°	4354.3	4322.9	4774.0	5823.9	7780.6	11129.5	15923.8	18551.5	22190.1	22063.2	17571.9
65°	2770.3	2879.1	3251.8	4067.7	5850.5	9089.8	14810.4	18527.2	23586.2	23524.3	18516.2
67.5°	1793.1	1789.9	2038.1	2677.1	3987.8	6892.7	12889.7	18002.6	24438.8	24416.1	19072.9
68°	1643.5	1642.7	1857.3	2429.6	3650.3	6455.0	12408.9	17807.6	24521.1	24495.2	19074.5
70°	1292.0	1290.4	1385.1	1638.0	2503.3	4769.3	10098.3	16658.2	24295.6	24290.1	18650.9
72.5°	1117.3	1114.2	1142.4	1201.9	1540.2	3039.6	7052.4	14386.0	22732.7	22652.0	17211.0
75°	1003.8	999.9	1017.1	1014.0	1117.3	1859.6	4359.7	11614.2	19379.1	19129.3	13497.3
77.5°	887.1	882.4	898.9	897.3	945.9	1248.9	2395.2	8317.7	14104.9	13285.9	8366.3
80°	755.6	751.7	771.3	776.0	830.0	939.6	1237.9	5146.7	7342.1	6698.5	3509.4
82.5°	599.0	605.3	639.7	652.2	707.8	682.0	768.9	2394.4	2643.4	2322.4	1075.8
85°	378.2	397.0	483.9	503.5	547.3	436.1	530.9	970.9	852.7	769.7	284.2
87.5°	140.9	156.6	277.2	279.5	278.7	176.2	270.9	343.0	274.0	248.2	88.5
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°	3980.8	3980.8	3980.8	3980.8	3980.8	3980.8	3980.8	3980.8	3980.8	3980.8	3980.8
2.5°	4022.3	3922.8	3774.8	3638.6	3526.6	3438.2	3349.7	3314.4	3279.2	3273.7	3236.9
5°	4074.7	3897.8	3620.6	3410.0	3264.3	3163.3	3099.1	3070.9	3052.1	3045.1	3013.0
7.5°	4170.3	3911.9	3530.5	3285.5	3154.7	3094.4	3073.3	3070.9	3070.1	3071.7	3035.7
10°	4309.6	3970.6	3496.1	3245.5	3150.8	3122.6	3122.6	3130.4	3130.4	3135.9	3100.7
12.5°	4467.8	4043.4	3486.7	3251.8	3183.7	3162.5	3159.4	3164.9	3157.1	3158.6	3123.4
15°	4643.2	4130.3	3495.3	3271.4	3204.0	3171.9	3148.4	3137.5	3116.3	3106.9	3074.8
17.5°	4840.5	4232.1	3509.4	3276.9	3188.4	3132.0	3078.0	3040.4	3008.3	3004.4	2966.0
20°	5054.3	4341.7	3514.9	3249.5	3128.9	3039.6	2959.0	2903.4	2856.4	2836.0	2808.6
22.5°	5286.8	4452.1	3488.3	3169.6	3019.2	2902.6	2802.4	2729.5	2663.0	2639.5	2604.3
25°	5524.1	4553.1	3428.0	3060.7	2872.0	2737.4	2609.7	2515.0	2439.0	2407.7	2375.6
27.5°	5754.2	4632.2	3330.9	2917.5	2710.7	2554.1	2403.8	2288.7	2209.6	2183.8	2156.4
30°	5983.6	4697.2	3192.3	2762.4	2546.3	2367.0	2204.9	2093.7	2025.6	1984.1	1957.5
32.5°	6260.8	4763.0	3053.7	2602.7	2377.2	2183.0	2042.8	1956.7	1872.2	1822.8	1798.6
35°	6584.2	4836.6	2892.4	2439.8	2202.6	2026.4	1941.1	1829.1	1728.1	1690.5	1670.9
37.5°	6962.4	4907.8	2724.8	2276.2	2034.2	1927.0	1858.1	1721.0	1644.3	1622.4	1608.3
40°	7385.2	4972.8	2528.3	2114.9	1881.5	1854.1	1767.2	1657.6	1598.9	1569.9	1554.3
42.5°	7848.7	5026.1	2367.8	1945.8	1761.8	1766.4	1688.9	1625.5	1543.3	1508.8	1495.5
45°	8374.1	5106.7	2216.7	1779.0	1660.7	1660.7	1631.8	1565.2	1493.2	1472.0	1463.4
47.5°	9058.4	5218.7	2057.7	1638.8	1591.1	1565.2	1569.9	1487.7	1454.8	1434.5	1427.4
50°	9846.1	5308.7	1896.4	1541.7	1543.3	1507.3	1478.3	1439.9	1417.2	1395.3	1381.2
52.5°	10570.4	5310.3	1765.7	1487.7	1499.4	1466.6	1406.3	1395.3	1379.6	1344.4	1333.4
55°	11247.7	5282.9	1654.5	1459.5	1459.5	1423.5	1366.3	1356.9	1336.6	1302.1	1295.1
57.5°	12020.5	5252.4	1573.0	1450.1	1436.0	1368.7	1336.6	1324.8	1292.0	1271.6	1264.5
60°	12855.2	5207.0	1512.8	1451.7	1422.7	1324.8	1310.7	1292.7	1259.1	1244.2	1237.9
62.5°	13690.7	5075.4	1463.4	1457.2	1414.9	1302.1	1284.9	1261.4	1225.4	1213.6	1207.4
65°	14141.7	4729.3	1402.4	1450.9	1405.5	1288.8	1255.9	1223.8	1175.3	1170.6	1161.2
67.5°	14002.3	4155.4	1306.8	1404.7	1392.2	1270.8	1218.3	1166.7	1107.2	1126.7	1117.3
68°	13876.2	4015.2	1282.6	1389.0	1387.5	1266.9	1209.7	1152.6	1093.1	1118.9	1103.2
70°	13031.4	3418.6	1163.5	1299.8	1349.9	1250.5	1165.9	1095.4	1028.1	1076.6	1052.4
72.5°	11186.6	2634.8	977.2	1139.3	1254.4	1222.3	1107.9	1006.2	931.0	934.1	904.4
75°	8315.4	1822.0	785.3	920.0	1104.8	1183.1	1039.8	909.1	815.1	783.8	771.3
77.5°	4547.7	1188.6	613.1	698.4	892.6	1080.5	956.8	802.6	695.3	665.6	649.1
80°	1887.8	705.5	475.3	515.2	619.4	922.4	895.8	693.0	573.2	548.1	525.4
82.5°	624.8	432.2	352.4	349.2	404.8	718.8	790.0	545.8	440.0	458.1	379.0
85°	218.5	227.1	222.4	209.8	226.3	421.3	584.9	363.3	286.6	234.1	220.0
87.5°	61.1	82.2	83.0	65.8	67.3	97.1	263.9	166.0	101.0	67.3	59.5
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)