

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: P381124

Luminaire Tested: **PRV-PA1A-8540-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1A-8540-U-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 85 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5948.5 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 54
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

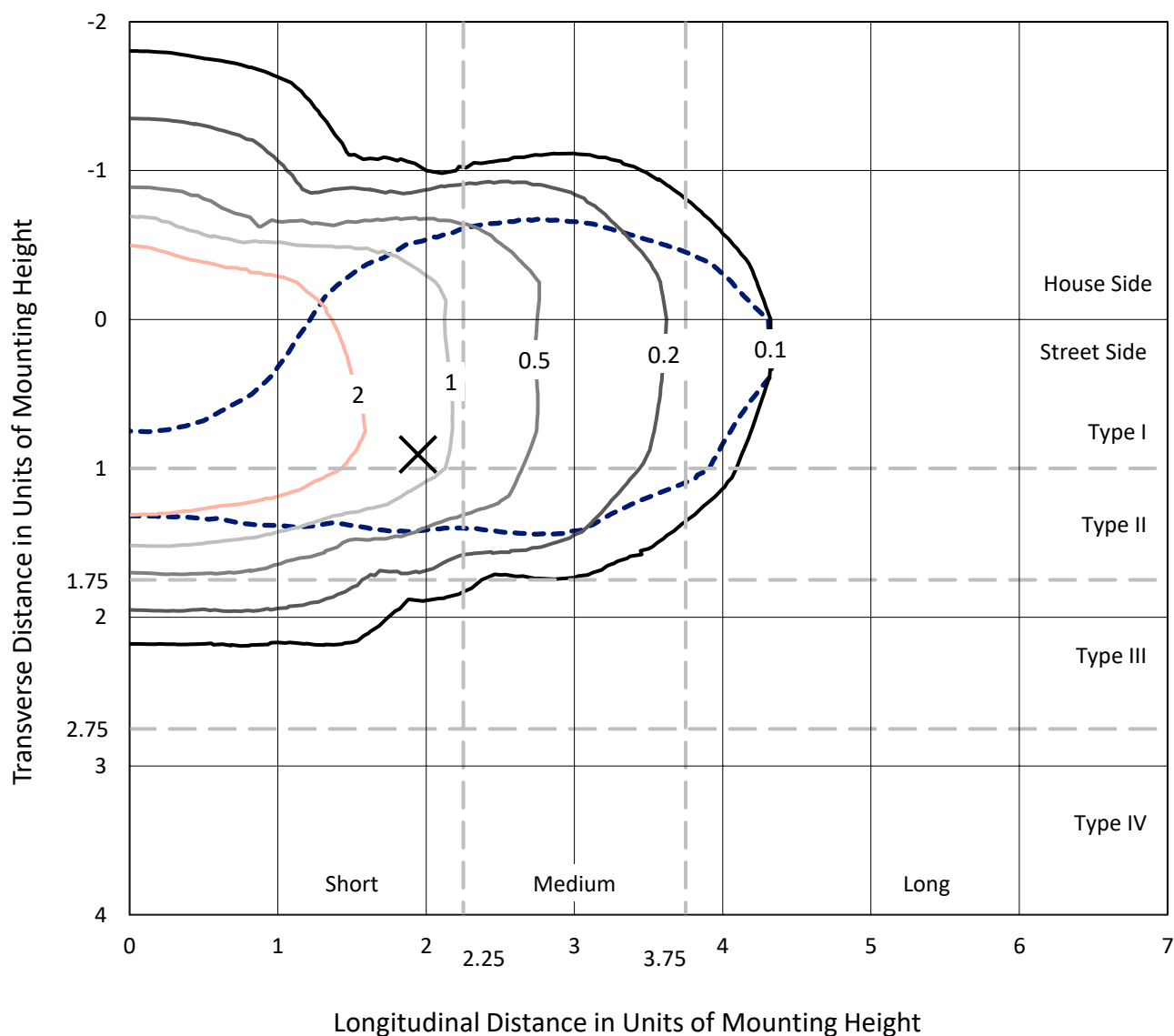


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

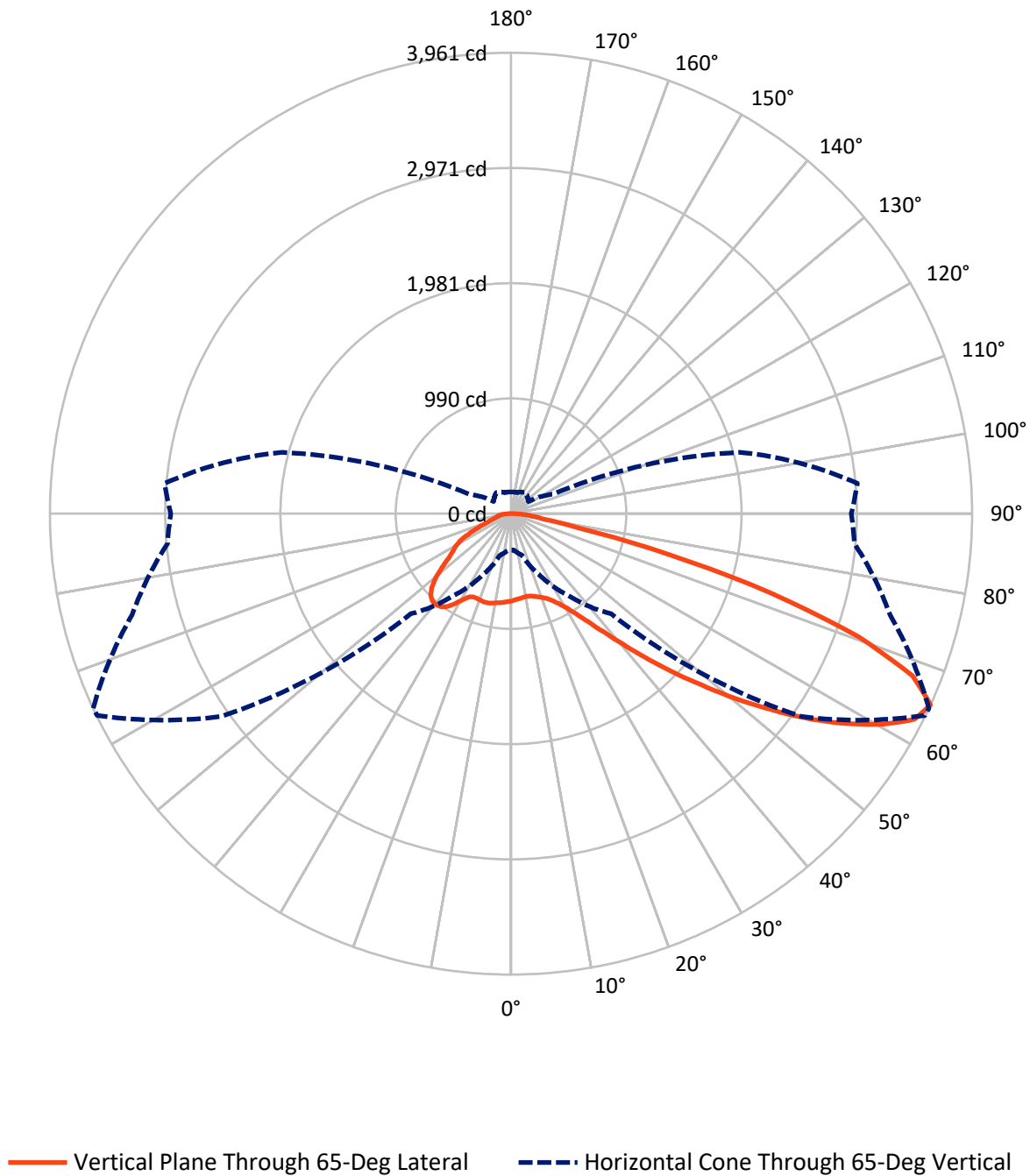


Based on 15 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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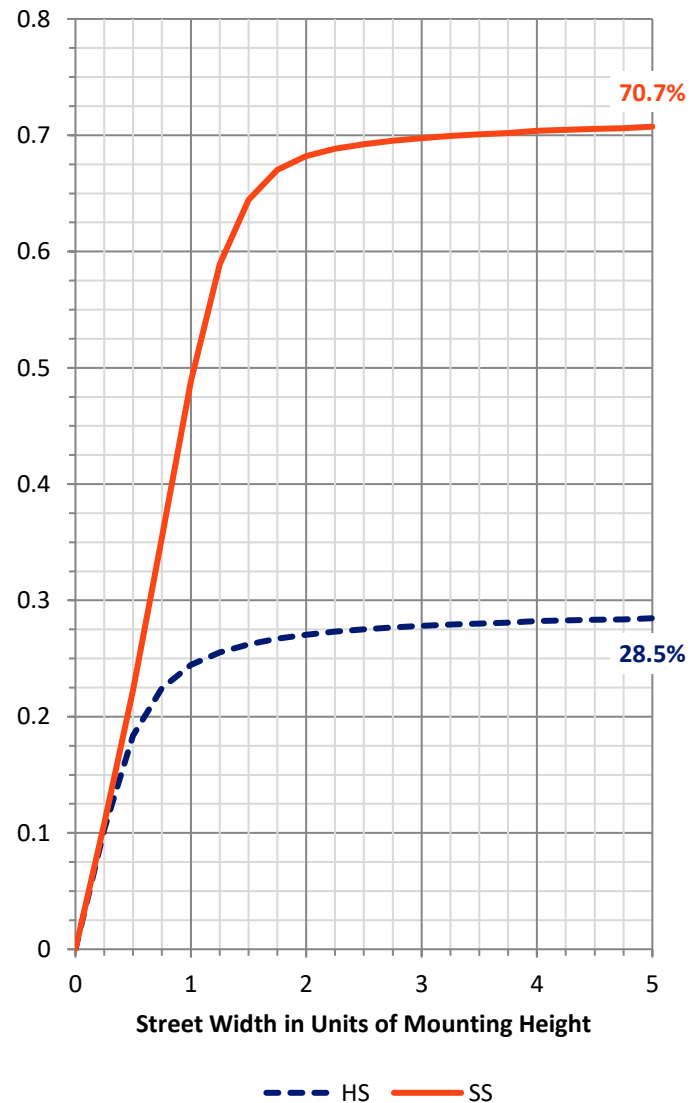
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1719.8	0.0	1719.8
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	4228.7	0.0	4228.7
	% Fixture	71.1	0.0	71.1
Total	Lumens	5948.5	0.0	5948.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	1.2
10°-20°	213.8	3.6
20°-30°	379.8	6.4
30°-40°	642.5	10.8
40°-50°	1118.4	18.8
50°-60°	1445.4	24.3
60°-70°	1264.8	21.3
70°-80°	688.0	11.6
80°-90°	124.3	2.1
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°	5948.5	100.0
0°-180°	5948.5	100.0

Coefficient of Utilization



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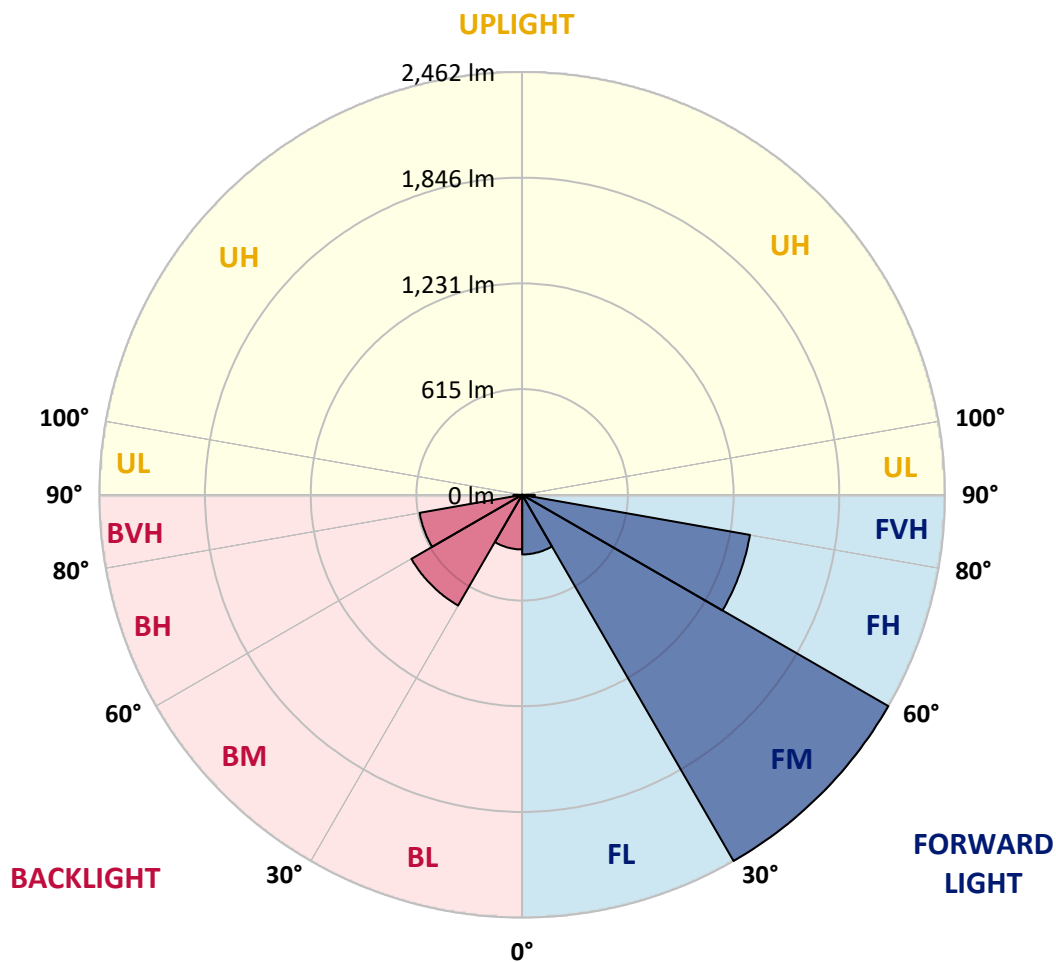
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.1	5.8			
FM	(30°-60°)	2461.6	41.4			
FH	(60°-80°)	1346.8	22.6			G1/1800
FVH	(80°-90°)	73.1	1.2			G1/100
BL	(0°-30°)	318.1	5.3	B1/500		
BM	(30°-60°)	744.6	12.5	B1/1000		
BH	(60°-80°)	605.9	10.2	B2/1000		G2/1000
BVH	(80°-90°)	51.2	0.9			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	751.7	751.7	751.7	751.7	751.7	751.7	751.7	751.7	751.7	751.7	751.7
2.5°	738.4	737.6	736.0	737.6	738.4	739.9	739.2	740.7	739.9	742.3	746.2
5°	719.6	718.0	717.2	721.1	723.5	727.4	729.0	734.5	733.7	737.6	743.8
7.5°	698.4	698.4	697.7	702.4	705.5	712.5	718.0	727.4	728.2	735.2	742.3
10°	682.0	682.8	682.0	685.9	690.6	699.2	708.6	721.9	722.7	732.9	739.9
12.5°	675.7	675.7	675.7	681.2	687.5	699.2	710.2	724.3	725.8	736.8	743.1
15°	684.3	685.1	683.6	689.0	696.1	710.2	720.4	735.2	736.8	747.0	750.9
17.5°	714.9	718.0	714.1	717.2	715.7	726.6	736.0	750.9	751.7	760.3	761.9
20°	775.2	778.3	772.0	768.1	754.0	753.2	757.2	768.9	768.9	774.4	770.5
22.5°	868.3	871.4	860.4	845.6	812.0	795.5	786.9	792.4	791.6	794.0	783.8
25°	992.0	991.2	977.9	950.5	896.5	856.5	835.4	826.8	826.8	822.1	809.6
27.5°	1145.5	1133.7	1110.2	1077.3	1002.2	946.6	901.2	879.2	875.3	861.2	837.7
30°	1309.1	1300.5	1266.8	1219.1	1132.1	1060.9	985.7	941.9	939.5	909.0	873.7
32.5°	1501.7	1487.6	1450.0	1392.9	1288.7	1188.5	1094.6	1028.0	1024.1	975.5	927.0
35°	1749.1	1737.4	1664.6	1607.4	1473.5	1342.0	1230.8	1142.3	1139.2	1079.7	1017.8
37.5°	2045.9	2015.4	1944.9	1837.6	1696.7	1540.9	1399.9	1288.7	1284.8	1219.1	1140.8
40°	2310.6	2283.1	2220.5	2121.9	1970.7	1797.7	1606.6	1472.0	1468.0	1388.2	1289.5
42.5°	2506.2	2487.4	2446.8	2389.6	2281.6	2176.7	1870.5	1693.6	1686.5	1583.1	1460.2
45°	2619.8	2604.9	2581.4	2595.5	2593.9	2574.3	2185.3	1957.4	1934.7	1800.8	1650.5
47.5°	2592.4	2579.0	2588.4	2698.1	2849.2	2962.7	2551.6	2227.6	2197.0	2022.4	1853.3
50°	2394.3	2399.8	2449.1	2658.9	2998.0	3250.1	2958.0	2535.2	2494.5	2245.6	2045.9
52.5°	2033.4	2046.7	2166.5	2460.0	2981.5	3436.4	3325.2	2853.1	2799.1	2463.2	2221.3
55°	1615.3	1648.9	1804.0	2112.5	2767.0	3449.7	3602.4	3172.6	3113.1	2667.5	2374.0
57.5°	1194.8	1244.9	1424.2	1707.6	2356.0	3239.1	3741.0	3477.9	3405.9	2870.3	2535.2
60°	757.9	788.5	995.1	1329.5	1803.2	2723.9	3723.0	3737.9	3675.2	3072.3	2703.5
62.5°	483.9	498.8	602.9	948.1	1260.6	2016.9	3526.5	3934.4	3892.1	3256.3	2863.3
65°	310.9	317.1	370.4	583.3	858.1	1217.5	3037.1	3955.6	3961.0	3371.4	2961.9
67.5°	252.9	256.0	275.6	360.2	606.8	672.6	2115.6	3654.9	3721.4	3341.7	2928.3
70°	230.2	234.1	254.5	287.4	469.8	464.3	1024.1	3058.2	3167.1	3170.2	2778.7
72.5°	194.2	199.7	227.1	271.7	363.3	366.4	433.8	2178.2	2338.7	2833.5	2554.0
75°	162.1	165.2	188.7	239.6	307.7	292.8	304.6	1154.8	1386.6	2272.2	2315.3
77.5°	131.5	134.7	151.9	191.1	273.3	227.9	239.6	478.4	591.2	1542.4	1892.4
80°	94.0	97.1	116.7	148.8	206.7	205.1	177.7	263.9	286.6	833.8	1229.2
82.5°	67.3	69.7	88.5	106.5	143.3	205.9	133.9	179.3	187.9	369.6	495.6
85°	45.4	45.4	61.1	70.5	92.4	130.0	108.1	121.4	126.8	175.4	133.9
87.5°	19.6	19.6	32.9	36.0	48.5	60.3	80.6	61.1	62.6	94.7	54.8
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°	751.7	751.7	751.7	751.7	751.7	751.7	751.7	751.7	751.7	751.7	751.7
2.5°	748.5	749.3	750.9	755.6	758.7	763.4	765.8	768.9	768.9	767.3	768.1
5°	747.0	749.3	754.8	763.4	768.9	777.5	783.8	788.5	790.0	788.5	789.3
7.5°	746.2	750.1	759.5	772.0	779.9	790.8	799.4	804.9	808.8	807.3	808.1
10°	743.8	750.1	761.9	777.5	789.3	800.2	808.1	810.4	812.8	811.2	810.4
12.5°	747.0	754.0	766.6	785.3	798.7	807.3	809.6	805.7	800.2	797.1	796.3
15°	753.2	760.3	772.8	792.4	804.1	807.3	801.8	789.3	776.7	769.7	768.9
17.5°	761.9	766.6	776.7	794.0	803.4	799.4	788.5	773.6	764.2	758.7	759.5
20°	767.3	767.3	775.2	788.5	796.3	793.2	779.9	763.4	748.5	741.5	739.2
22.5°	775.2	771.3	772.0	783.8	794.7	790.0	761.9	732.9	711.7	703.9	703.1
25°	796.3	785.3	778.3	785.3	811.2	772.8	716.4	682.8	663.2	656.2	656.9
27.5°	822.1	807.3	792.4	804.1	824.4	733.7	658.5	620.1	608.4	602.9	605.3
30°	847.9	828.3	808.8	851.0	815.1	672.6	584.1	546.5	536.4	532.4	535.6
32.5°	895.7	863.6	840.1	913.7	786.1	602.9	503.5	469.0	459.6	454.9	453.4
35°	975.5	934.8	911.3	968.5	745.4	525.4	429.9	405.6	395.4	385.2	383.7
37.5°	1090.6	1041.3	1020.2	999.8	688.3	448.7	373.5	357.0	342.2	326.5	325.7
40°	1228.4	1164.2	1148.6	1013.9	609.2	376.6	334.3	318.7	299.9	285.0	285.8
42.5°	1387.4	1305.2	1271.5	1010.0	511.3	338.3	306.2	288.9	272.5	259.2	258.4
45°	1557.3	1464.1	1386.6	982.6	414.2	311.6	288.9	268.6	252.1	237.2	235.7
47.5°	1745.2	1641.1	1493.1	929.3	342.2	292.8	278.7	249.8	234.9	225.5	225.5
50°	1934.7	1810.2	1591.0	848.7	299.9	278.7	263.9	239.6	227.9	220.0	220.0
52.5°	2096.8	1986.4	1671.6	752.5	273.3	267.0	253.7	234.9	222.4	215.3	214.5
55°	2254.2	2150.0	1743.7	656.9	251.3	251.3	251.3	231.0	216.9	210.6	209.8
57.5°	2410.8	2322.3	1818.8	594.3	231.8	238.0	246.6	226.3	212.2	206.7	205.9
60°	2587.7	2528.9	1905.7	550.4	214.5	223.9	240.4	220.8	204.4	199.7	198.9
62.5°	2775.6	2775.6	1984.8	488.6	198.9	212.2	231.0	213.8	197.3	193.4	192.6
65°	2922.8	2986.2	2035.7	396.2	183.2	200.4	220.0	204.4	187.9	187.1	185.6
67.5°	2940.0	3039.4	2003.6	299.1	169.1	187.9	209.1	194.2	178.5	178.5	176.2
70°	2816.3	2917.3	1903.4	223.9	158.9	175.4	195.0	181.7	166.8	168.3	164.4
72.5°	2609.6	2634.6	1654.4	177.0	147.2	162.1	177.7	167.6	154.3	154.3	148.8
75°	2337.2	2197.8	1201.8	148.0	133.1	146.4	160.5	151.9	140.2	136.2	133.1
77.5°	1860.3	1592.5	698.4	127.6	121.4	131.5	140.9	134.7	124.5	115.9	115.9
80°	1133.7	933.3	308.5	110.4	107.3	115.1	121.4	114.3	105.7	97.1	94.7
82.5°	431.4	360.2	149.6	94.7	94.0	98.7	103.4	96.3	90.0	86.1	74.4
85°	118.2	108.8	102.6	79.1	77.5	76.7	82.2	79.1	70.5	57.9	51.7
87.5°	44.6	50.9	55.6	48.5	51.7	47.8	54.8	50.1	44.6	29.0	25.8
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)