

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: P380996

Luminaire Tested: **PRV-PA1A-8540-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1A-8540-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 85 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5860 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - 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

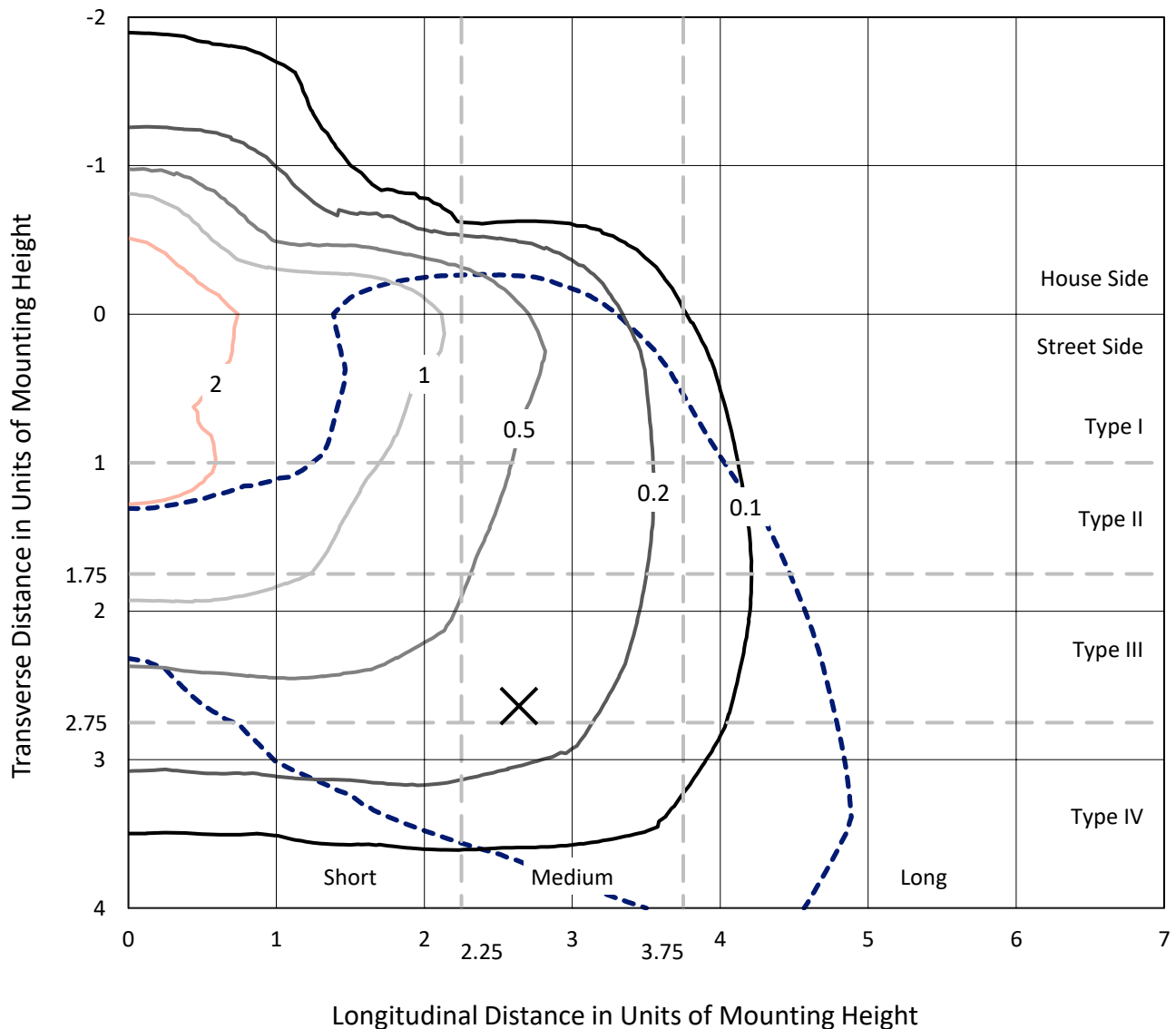


REPORT NUMBER: P380996

CATALOG NUMBER: PRV-PA1A-8540-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

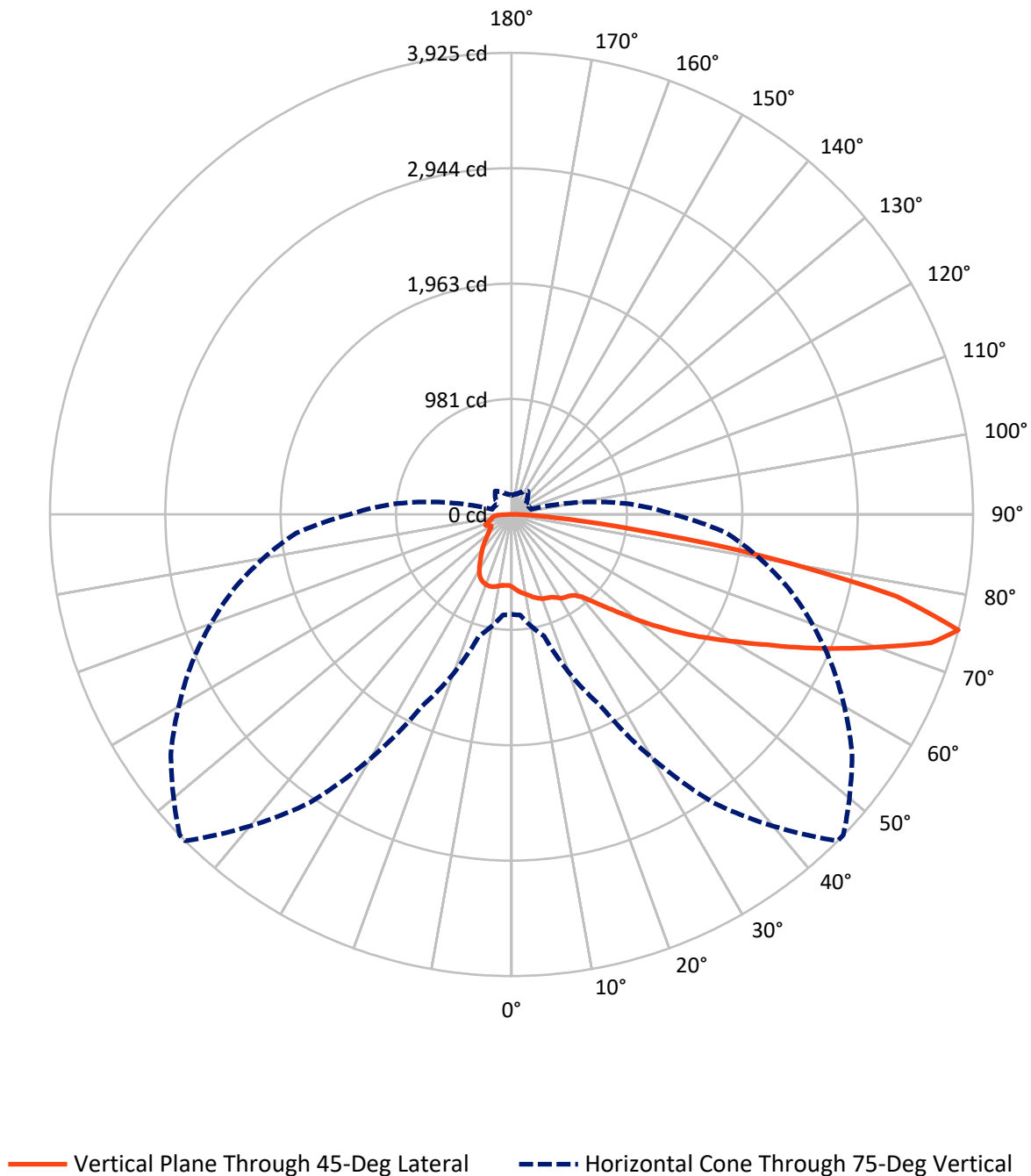


Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P380996

CATALOG NUMBER: PRV-PA1A-8540-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P380996

CATALOG NUMBER: PRV-PA1A-8540-U-T4W

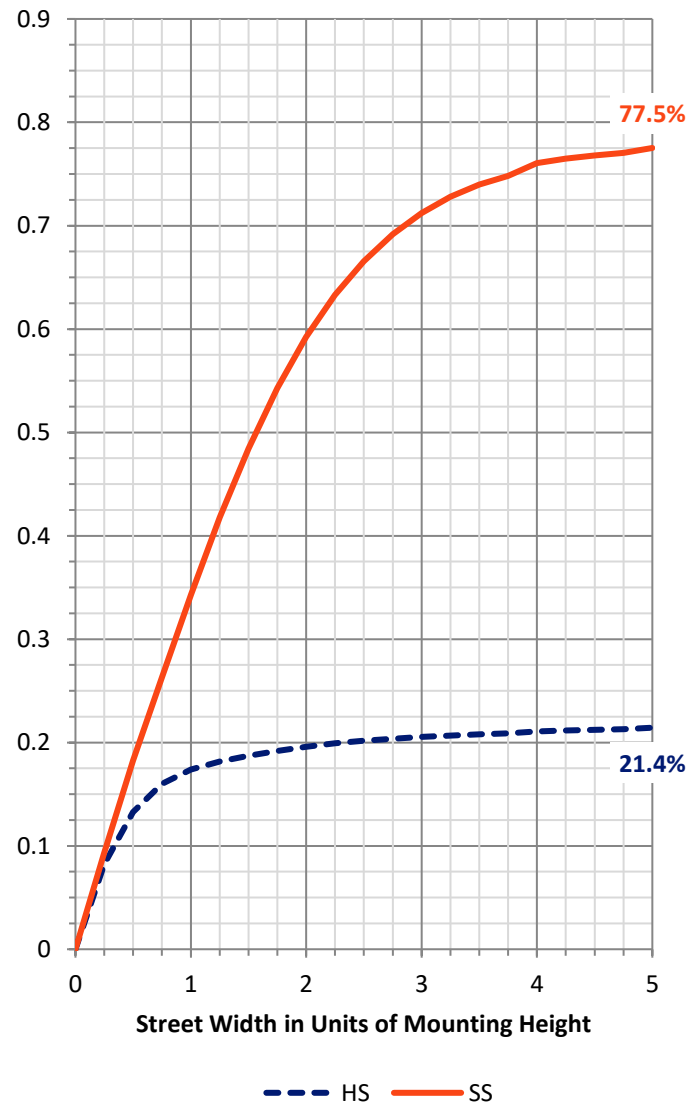
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1295.0	0.0	1295.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	4565.0	0.0	4565.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	5860.0	0.0	5860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	1.0
10°-20°	193.7	3.3
20°-30°	330.2	5.6
30°-40°	462.7	7.9
40°-50°	679.7	11.6
50°-60°	1081.8	18.5
60°-70°	1538.9	26.3
70°-80°	1288.5	22.0
80°-90°	223.6	3.8
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°	5860.0	100.0
0°-180°	5860.0	100.0

Coefficient of Utilization



REPORT NUMBER: P380996

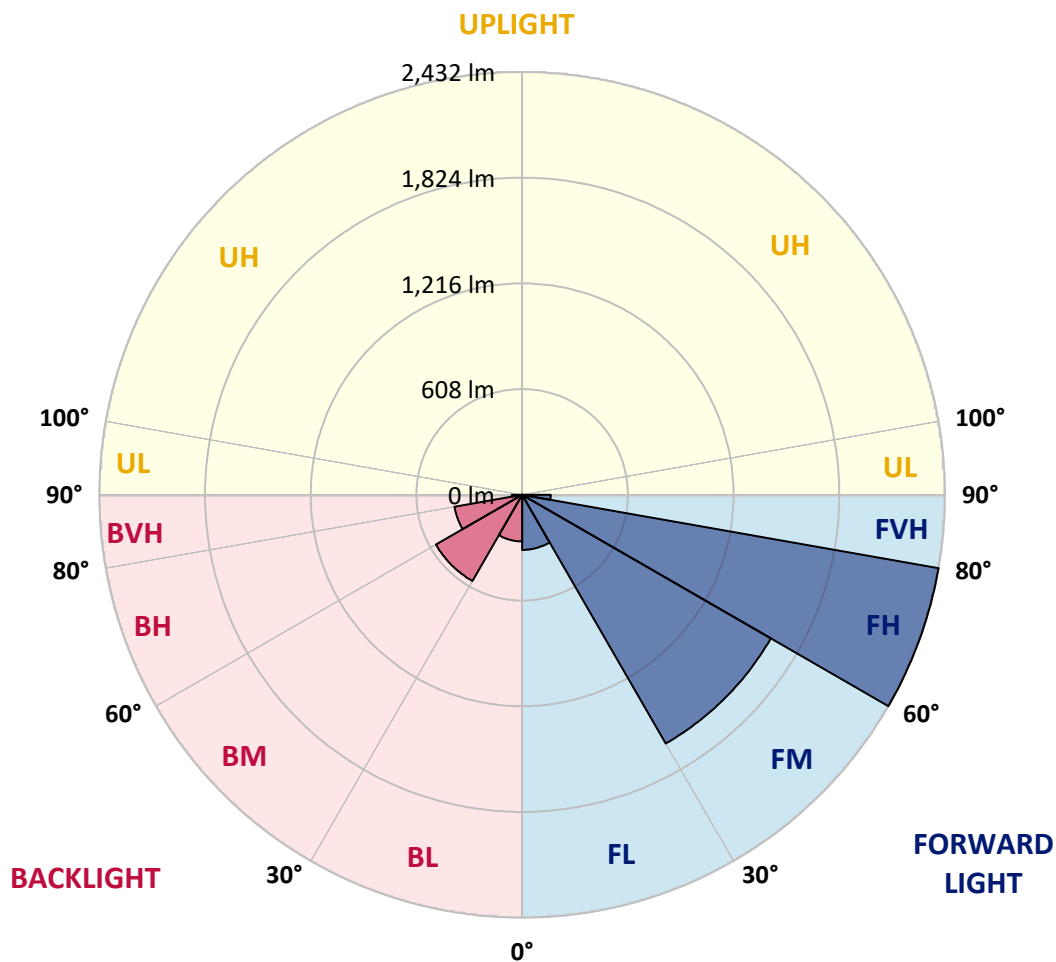
CATALOG NUMBER: PRV-PA1A-8540-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	316.8	5.4			
FM	(30°-60°)	1651.8	28.2			
FH	(60°-80°)	2432.0	41.5			G2/5000
FVH	(80°-90°)	164.4	2.8			G2/225
BL	(0°-30°)	268.0	4.6	B1/500		
BM	(30°-60°)	572.5	9.8	B1/1000		
BH	(60°-80°)	395.3	6.7	B1/500		G1/500
BVH	(80°-90°)	59.2	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



REPORT NUMBER: P380996

CATALOG NUMBER: PRV-PA1A-8540-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4
2.5°	650.7	647.5	646.0	646.0	639.7	635.8	635.0	629.5	624.8	620.1	616.2
5°	688.3	685.9	681.2	677.3	668.7	657.7	656.2	644.4	632.7	621.7	612.3
7.5°	722.7	718.0	712.5	704.7	690.6	675.7	673.4	656.9	640.5	624.1	611.5
10°	751.7	747.0	739.2	728.2	710.2	692.2	689.8	672.6	655.4	635.8	617.8
12.5°	779.1	775.2	763.4	748.5	727.4	711.0	708.6	693.7	675.7	653.8	630.3
15°	802.6	798.7	786.1	768.9	744.6	732.1	729.0	714.9	696.9	673.4	649.1
17.5°	814.3	814.3	801.0	782.2	759.5	750.1	747.8	730.5	714.1	691.4	667.1
20°	818.2	819.8	810.4	787.7	768.1	764.2	761.9	747.8	729.0	707.0	684.3
22.5°	820.6	823.7	815.9	790.0	773.6	771.3	769.7	760.3	745.4	724.3	701.6
25°	828.4	828.4	822.9	794.0	780.7	779.9	779.9	774.4	764.2	746.2	723.5
27.5°	840.2	839.4	832.3	802.6	796.3	798.7	797.9	797.1	790.0	772.0	747.8
30°	859.7	859.7	851.9	819.8	815.9	826.1	826.8	828.4	817.5	789.3	769.7
32.5°	889.5	886.4	878.5	837.0	830.8	840.2	841.7	840.9	831.5	804.9	795.5
35°	981.1	974.1	945.9	875.4	844.1	849.6	850.3	854.3	855.8	834.7	830.0
37.5°	1141.6	1132.2	1089.2	966.2	886.4	873.0	872.3	882.4	891.1	872.3	872.3
40°	1316.2	1308.4	1283.3	1122.8	964.7	920.8	917.7	927.1	938.0	924.7	928.6
42.5°	1466.6	1472.8	1475.2	1288.8	1082.1	1010.1	1001.5	988.1	1005.4	993.6	1009.3
45°	1579.3	1576.2	1619.2	1458.7	1234.0	1122.0	1110.3	1074.3	1096.2	1095.4	1129.9
47.5°	1699.1	1693.6	1711.6	1618.5	1407.1	1259.1	1241.1	1187.8	1220.7	1243.4	1300.6
50°	1812.6	1814.2	1820.5	1744.5	1595.0	1425.8	1403.1	1331.9	1378.9	1426.6	1507.3
52.5°	1960.6	1949.6	1941.8	1891.7	1805.6	1599.7	1584.8	1503.4	1569.1	1625.5	1732.8
55°	2089.7	2082.7	2078.0	2075.7	1981.7	1791.5	1775.8	1691.3	1786.0	1826.0	1984.0
57.5°	2227.6	2223.6	2248.7	2288.6	2251.0	1986.4	1969.9	1888.6	1994.2	2022.4	2256.5
60°	2328.6	2330.9	2399.8	2501.6	2475.8	2197.8	2178.2	2106.2	2197.0	2222.1	2529.0
62.5°	2329.3	2352.8	2512.6	2695.0	2724.8	2441.3	2418.6	2340.3	2405.3	2405.3	2773.3
65°	2107.0	2133.6	2492.2	2742.8	2976.9	2731.0	2709.1	2586.2	2610.4	2577.6	3002.7
67.5°	1885.5	1916.7	2254.2	2746.7	3153.8	3041.1	3015.3	2832.0	2790.5	2707.5	3163.2
70°	1738.3	1760.2	2042.0	2695.8	3260.3	3365.3	3345.7	3065.4	2932.3	2816.4	3129.6
72.5°	1463.4	1455.6	1724.9	2453.8	3319.8	3733.3	3716.8	3319.1	3055.2	2764.7	2669.2
75°	849.6	859.0	1070.4	1797.8	2992.5	3925.1	3923.5	3535.9	3001.2	2442.1	1839.3
77.5°	245.1	252.1	351.6	790.0	1892.5	3348.0	3455.3	3233.7	2536.8	1740.6	953.7
80°	107.3	112.8	152.7	263.1	815.1	2186.8	2280.8	2186.8	1530.0	798.7	374.3
82.5°	63.4	67.3	99.4	162.9	390.7	1040.6	1167.5	1019.5	660.1	339.0	155.0
85°	36.0	37.6	57.2	103.4	245.9	364.1	408.7	382.9	321.8	192.6	81.4
87.5°	16.4	17.2	28.2	48.5	137.8	122.9	127.6	169.1	186.4	117.4	40.7
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: P380996

CATALOG NUMBER: PRV-PA1A-8540-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4
2.5°	614.7	612.3	607.6	606.0	603.7	604.5	605.3	605.3	606.0	603.7	603.7
5°	608.4	604.5	599.8	599.8	599.8	606.0	611.5	614.7	616.2	616.2	614.7
7.5°	606.0	601.3	595.9	597.4	599.0	606.8	617.0	627.2	630.3	630.3	628.7
10°	610.7	606.0	602.1	604.5	608.4	614.7	622.5	631.9	639.7	640.5	639.7
12.5°	621.7	616.2	612.3	617.0	621.7	625.6	629.5	633.4	643.6	645.2	645.2
15°	639.7	634.2	629.5	633.4	635.0	635.0	635.0	635.0	645.2	646.8	646.8
17.5°	657.7	653.0	648.3	649.1	644.4	638.1	635.8	635.0	640.5	645.2	646.0
20°	674.9	671.0	666.3	658.5	646.8	635.0	631.1	631.1	634.2	641.3	641.3
22.5°	693.7	689.0	681.2	663.2	643.6	627.2	623.3	625.6	629.5	638.9	638.1
25°	714.9	708.6	695.3	661.6	633.4	613.9	614.7	621.7	628.7	638.9	638.9
27.5°	738.4	729.8	703.1	649.1	610.7	591.9	599.0	615.4	625.6	636.6	638.1
30°	764.2	756.4	709.4	627.2	573.9	556.7	573.9	600.6	616.2	626.4	628.7
32.5°	795.5	789.3	714.9	599.0	526.2	511.3	536.4	569.2	594.3	606.0	608.4
35°	834.7	828.4	721.9	566.9	481.5	465.9	488.6	522.3	555.1	570.0	574.7
37.5°	885.6	876.2	728.2	532.4	444.0	426.0	436.9	467.5	497.2	517.6	523.0
40°	950.6	935.7	733.7	493.3	411.1	390.7	394.6	409.5	426.7	444.7	451.8
42.5°	1042.2	1012.4	734.5	451.8	377.4	358.6	357.0	361.7	361.7	361.7	364.1
45°	1169.8	1113.4	736.0	412.6	343.0	323.4	318.7	317.1	305.4	282.7	281.1
47.5°	1331.1	1245.8	743.1	379.8	306.9	289.7	283.4	277.2	255.3	231.8	227.1
50°	1537.8	1399.2	757.2	348.4	276.4	264.7	256.8	241.9	217.7	199.7	195.0
52.5°	1775.8	1581.7	770.5	315.5	253.7	245.9	236.5	218.5	192.6	181.7	180.1
55°	2049.0	1785.2	797.1	286.6	234.1	228.6	220.0	202.8	183.2	175.4	174.6
57.5°	2328.6	2013.0	834.7	260.7	215.3	212.2	212.2	197.3	184.8	181.7	181.7
60°	2597.9	2208.8	805.7	236.5	198.1	199.7	214.5	210.6	201.2	205.1	207.5
62.5°	2807.0	2323.9	653.8	216.9	185.6	199.7	238.0	238.0	227.1	225.5	225.5
65°	2896.2	2322.3	459.6	202.0	180.9	219.2	265.4	252.9	223.9	213.0	210.6
67.5°	2873.5	2220.5	317.1	191.8	179.3	239.6	278.0	242.7	209.8	200.4	193.4
70°	2673.9	2005.2	244.3	182.4	177.0	231.0	274.0	231.0	198.9	190.3	184.0
72.5°	2157.1	1608.3	202.8	173.0	167.6	213.8	260.7	220.0	190.3	180.9	174.6
75°	1375.7	1011.6	171.5	160.5	149.6	191.8	242.7	209.1	180.9	168.3	163.6
77.5°	661.6	436.1	149.6	145.6	134.7	177.7	224.7	195.0	168.3	158.2	155.0
80°	267.8	199.7	130.0	130.8	123.7	169.1	212.2	181.7	155.8	144.9	139.4
82.5°	139.4	115.9	109.6	112.8	112.8	161.3	202.8	170.7	144.9	140.2	122.1
85°	75.2	72.0	84.6	90.8	97.9	145.6	188.7	158.9	132.3	113.5	109.6
87.5°	36.8	47.0	47.8	54.8	68.1	116.7	158.9	133.1	110.4	91.6	90.0
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)