

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: P381126

Luminaire Tested: **PRV-PA2A-740-U-T2U**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2A-740-U-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15795 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

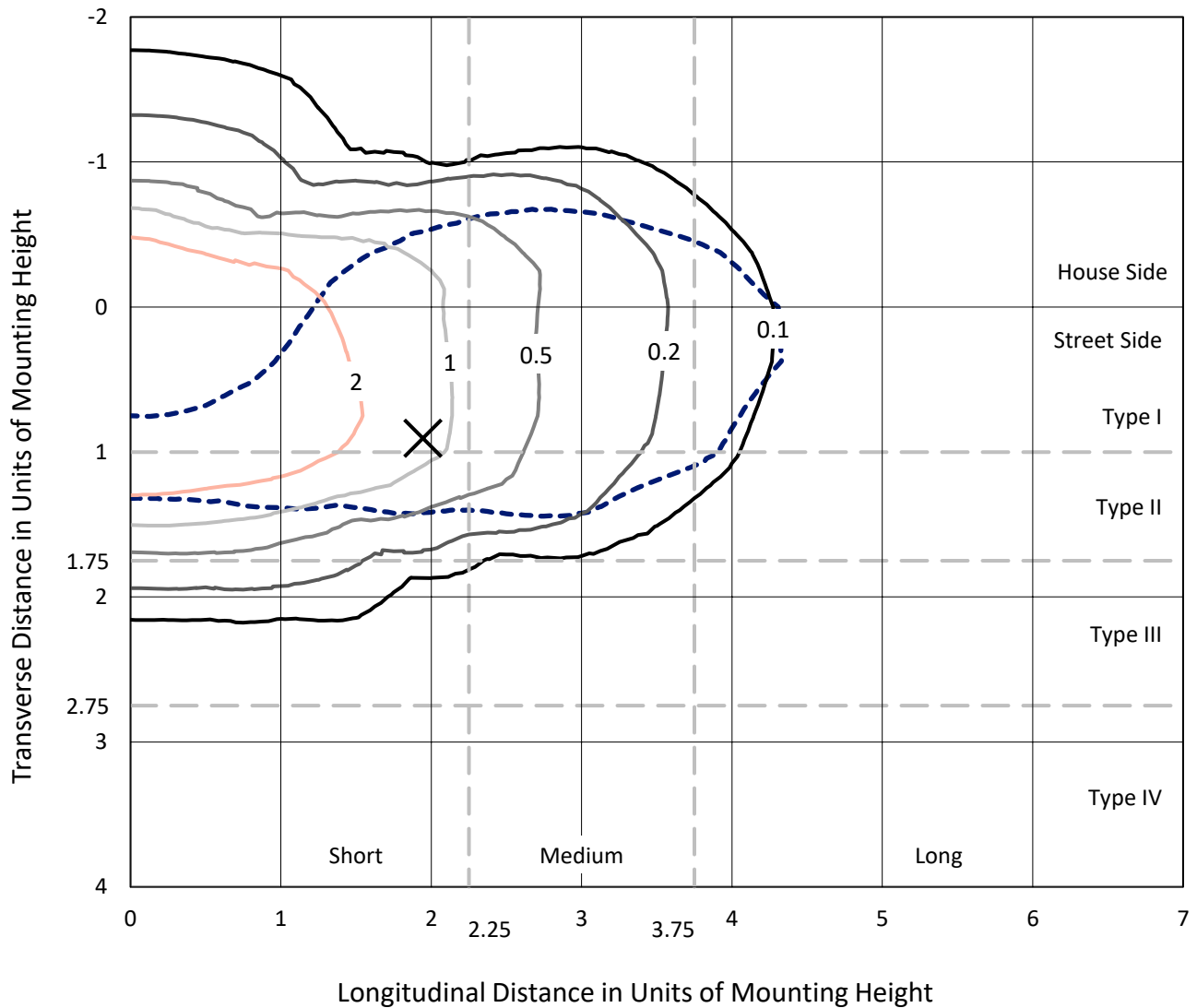
Input Watts (W): 112
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

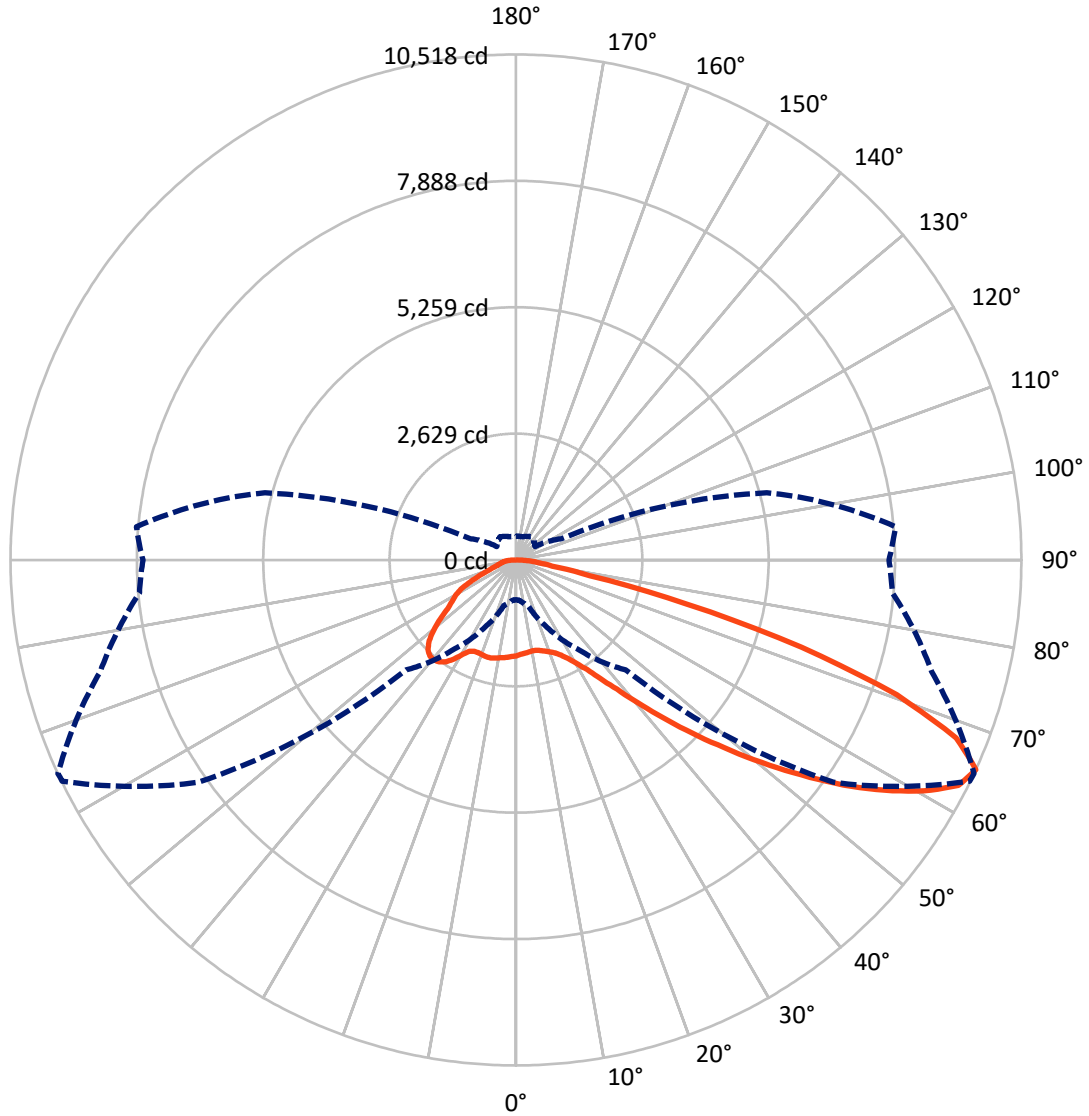
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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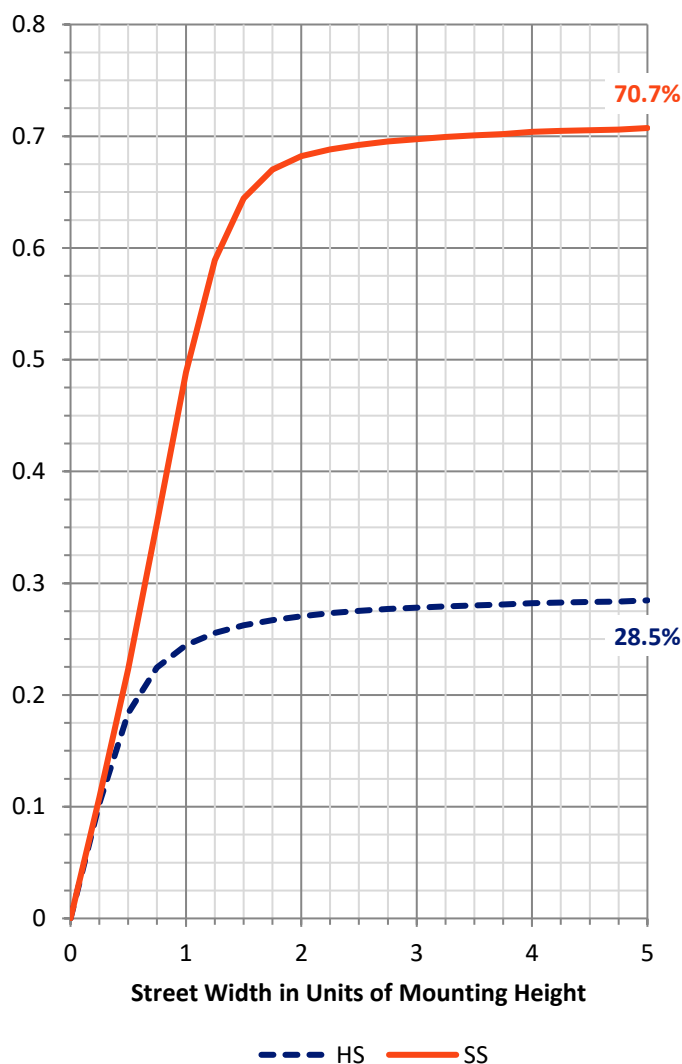
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4566.6	0.0	4566.6
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	11228.4	0.0	11228.4
	% Fixture	71.1	0.0	71.1
Total	Lumens	15795.0	0.0	15795.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.1	1.2
10°-20°	567.7	3.6
20°-30°	1008.4	6.4
30°-40°	1706.0	10.8
40°-50°	2969.8	18.8
50°-60°	3837.9	24.3
60°-70°	3358.4	21.3
70°-80°	1826.7	11.6
80°-90°	330.0	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°	15795.0	100.0
0°-180°	15795.0	100.0

Coefficient of Utilization



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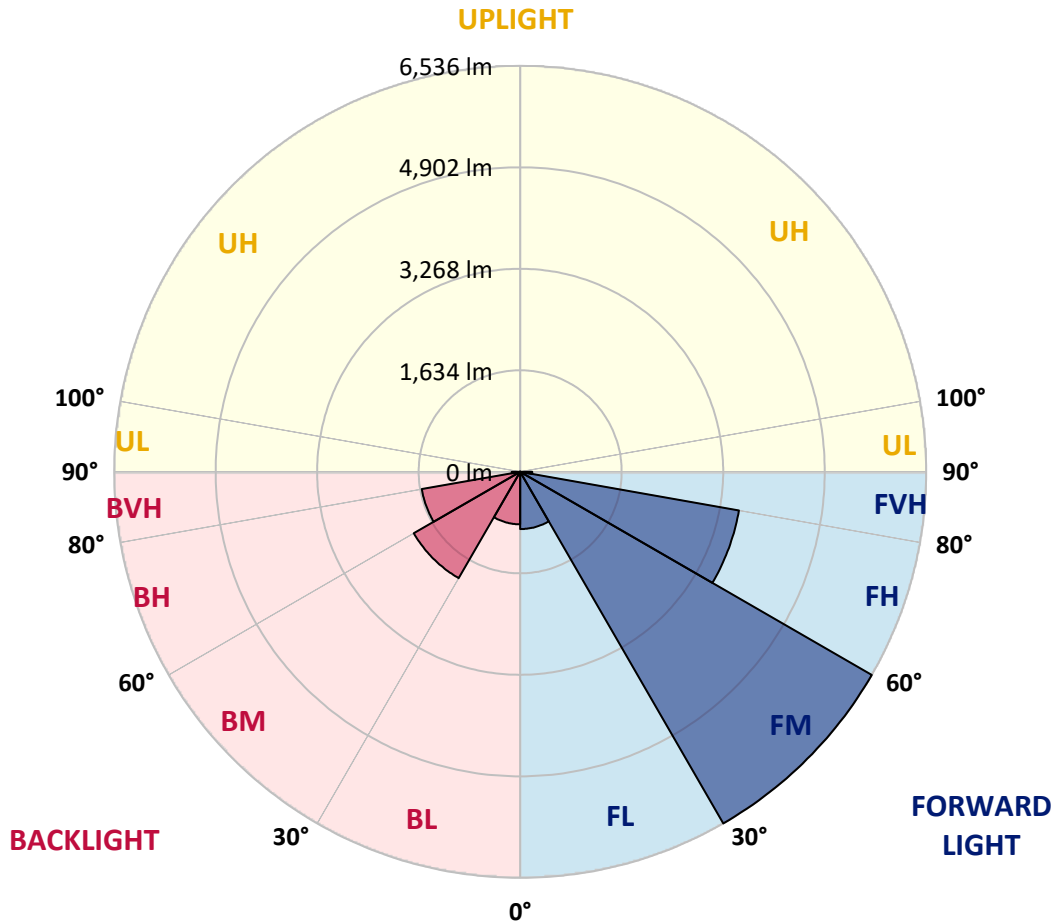
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	921.6	5.8			
FM (30°-60°)	6536.4	41.4			
FH (60°-80°)	3576.2	22.6			G2/5000
FVH (80°-90°)	194.2	1.2			G2/225
BL (0°-30°)	844.7	5.3	B2/1000		
BM (30°-60°)	1977.2	12.5	B2/2500		
BH (60°-80°)	1608.9	10.2	B3/2500		G3/2500
BVH (80°-90°)	135.8	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9
2.5°	1960.5	1958.4	1954.3	1958.4	1960.5	1964.7	1962.6	1966.7	1964.7	1970.9	1981.3
5°	1910.6	1906.5	1904.4	1914.8	1921.0	1931.4	1935.6	1950.1	1948.0	1958.4	1975.1
7.5°	1854.5	1854.5	1852.4	1864.9	1873.2	1891.9	1906.5	1931.4	1933.5	1952.2	1970.9
10°	1810.8	1812.9	1810.8	1821.2	1833.7	1856.6	1881.5	1916.8	1918.9	1946.0	1964.7
12.5°	1794.2	1794.2	1794.2	1808.7	1825.4	1856.6	1885.7	1923.1	1927.2	1956.3	1973.0
15°	1817.1	1819.1	1815.0	1829.5	1848.2	1885.7	1912.7	1952.2	1956.3	1983.4	1993.8
17.5°	1898.1	1906.5	1896.1	1904.4	1900.2	1929.3	1954.3	1993.8	1995.9	2018.7	2022.9
20°	2058.2	2066.5	2049.9	2039.5	2002.1	2000.0	2010.4	2041.6	2041.6	2056.1	2045.7
22.5°	2305.6	2313.9	2284.8	2245.3	2155.9	2112.3	2089.4	2104.0	2101.9	2108.1	2081.1
25°	2634.1	2632.0	2596.7	2523.9	2380.5	2274.4	2218.3	2195.4	2195.4	2183.0	2149.7
27.5°	3041.6	3010.4	2948.0	2860.7	2661.1	2513.5	2392.9	2334.7	2324.3	2286.9	2224.5
30°	3476.1	3453.2	3363.8	3237.0	3006.2	2817.1	2617.5	2501.1	2494.8	2413.7	2320.2
32.5°	3987.5	3950.1	3850.3	3698.6	3422.1	3155.9	2906.5	2729.7	2719.3	2590.4	2461.5
35°	4644.5	4613.3	4420.0	4268.2	3912.7	3563.4	3268.2	3033.3	3025.0	2867.0	2702.7
37.5°	5432.5	5351.4	5164.3	4879.4	4505.2	4091.5	3717.3	3422.1	3411.7	3237.0	3029.1
40°	6135.2	6062.4	5896.1	5634.1	5232.9	4773.4	4266.1	3908.5	3898.1	3686.1	3424.1
42.5°	6654.9	6605.0	6496.9	6345.1	6058.2	5779.7	4966.8	4496.9	4478.2	4203.8	3877.4
45°	6956.4	6916.9	6854.5	6891.9	6887.8	6835.8	5802.5	5197.5	5137.2	4781.7	4382.6
47.5°	6883.6	6848.3	6873.2	7164.3	7565.5	7867.0	6775.5	5914.8	5833.7	5370.1	4921.0
50°	6357.6	6372.2	6503.1	7060.3	7960.5	8630.0	7854.5	6731.8	6623.7	5962.6	5432.5
52.5°	5399.2	5434.5	5752.6	6532.3	7916.9	9124.8	8829.6	7575.9	7432.5	6540.6	5898.2
55°	4289.0	4378.4	4790.0	5609.2	7347.2	9160.1	9565.5	8424.2	8266.1	7083.2	6303.6
57.5°	3172.6	3305.6	3781.7	4534.3	6255.7	8600.9	9933.5	9235.0	9043.7	7621.7	6731.8
60°	2012.5	2093.6	2642.4	3530.2	4788.0	7232.9	9885.7	9925.2	9758.9	8158.0	7178.8
62.5°	1284.8	1324.3	1600.8	2517.7	3347.2	5355.5	9363.9	10447.0	10334.8	8646.6	7602.9
65°	825.4	842.0	983.4	1548.9	2278.6	3232.9	8064.5	10503.2	10517.7	8952.2	7864.9
67.5°	671.5	679.8	731.8	956.3	1611.2	1785.9	5617.5	9704.8	9881.5	8873.2	7775.5
70°	611.2	621.6	675.7	763.0	1247.4	1232.9	2719.3	8120.6	8409.6	8417.9	7378.4
72.5°	515.6	530.1	602.9	721.4	964.7	973.0	1151.8	5783.8	6210.0	7523.9	6781.7
75°	430.4	438.7	501.0	636.2	817.1	777.6	808.7	3066.5	3681.9	6033.3	6147.6
77.5°	349.3	357.6	403.3	507.3	725.6	605.0	636.2	1270.3	1569.7	4095.7	5025.0
80°	249.5	257.8	309.8	395.0	548.9	544.7	471.9	700.6	760.9	2214.1	3264.0
82.5°	178.8	185.0	234.9	282.7	380.5	546.8	355.5	476.1	499.0	981.3	1316.0
85°	120.6	120.6	162.2	187.1	245.3	345.1	286.9	322.2	336.8	465.7	355.5
87.5°	52.0	52.0	87.3	95.6	128.9	160.1	214.1	162.2	166.3	251.6	145.5
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°	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9
2.5°	1987.5	1989.6	1993.8	2006.2	2014.6	2027.0	2033.3	2041.6	2041.6	2037.4	2039.5
5°	1983.4	1989.6	2004.2	2027.0	2041.6	2064.5	2081.1	2093.6	2097.7	2093.6	2095.6
7.5°	1981.3	1991.7	2016.6	2049.9	2070.7	2099.8	2122.7	2137.2	2147.6	2143.5	2145.5
10°	1975.1	1991.7	2022.9	2064.5	2095.6	2124.7	2145.5	2151.8	2158.0	2153.9	2151.8
12.5°	1983.4	2002.1	2035.4	2085.2	2120.6	2143.5	2149.7	2139.3	2124.7	2116.4	2114.4
15°	2000.0	2018.7	2052.0	2104.0	2135.1	2143.5	2128.9	2095.6	2062.4	2043.7	2041.6
17.5°	2022.9	2035.4	2062.4	2108.1	2133.1	2122.7	2093.6	2054.1	2029.1	2014.6	2016.6
20°	2037.4	2037.4	2058.2	2093.6	2114.4	2106.0	2070.7	2027.0	1987.5	1968.8	1962.6
22.5°	2058.2	2047.8	2049.9	2081.1	2110.2	2097.7	2022.9	1946.0	1889.8	1869.0	1867.0
25°	2114.4	2085.2	2066.5	2085.2	2153.9	2052.0	1902.3	1812.9	1760.9	1742.2	1744.3
27.5°	2183.0	2143.5	2104.0	2135.1	2189.2	1948.0	1748.4	1646.6	1615.4	1600.8	1607.1
30°	2251.6	2199.6	2147.6	2259.9	2164.3	1785.9	1550.9	1451.1	1424.1	1413.7	1422.0
32.5°	2378.4	2293.1	2230.8	2426.2	2087.3	1600.8	1336.8	1245.3	1220.4	1207.9	1203.7
35°	2590.4	2482.3	2420.0	2571.7	1979.2	1395.0	1141.4	1076.9	1049.9	1022.9	1018.7
37.5°	2896.1	2765.1	2709.0	2654.9	1827.5	1191.3	991.7	948.0	908.5	866.9	864.9
40°	3262.0	3091.5	3049.9	2692.3	1617.5	1000.0	887.7	846.2	796.3	756.8	758.8
42.5°	3684.0	3465.7	3376.3	2681.9	1357.6	898.1	812.9	767.2	723.5	688.2	686.1
45°	4135.2	3887.8	3681.9	2609.2	1099.8	827.4	767.2	713.1	669.4	629.9	625.8
47.5°	4634.1	4357.6	3964.7	2467.8	908.5	777.6	740.1	663.2	623.7	598.8	598.8
50°	5137.2	4806.7	4224.6	2253.6	796.3	740.1	700.6	636.2	605.0	584.2	584.2
52.5°	5567.6	5274.5	4438.7	1997.9	725.6	708.9	673.6	623.7	590.4	571.7	569.6
55°	5985.5	5709.0	4630.0	1744.3	667.4	667.4	667.4	613.3	575.9	559.3	557.2
57.5°	6401.3	6166.3	4829.5	1578.0	615.4	632.0	654.9	600.8	563.4	548.9	546.8
60°	6871.1	6715.2	5060.3	1461.5	569.6	594.6	638.3	586.3	542.6	530.1	528.1
62.5°	7370.1	7370.1	5270.3	1297.3	528.1	563.4	613.3	567.6	523.9	513.5	511.4
65°	7760.9	7929.3	5405.4	1052.0	486.5	532.2	584.2	542.6	499.0	496.9	492.7
67.5°	7806.7	8070.7	5320.2	794.2	449.1	499.0	555.1	515.6	474.0	474.0	467.8
70°	7478.2	7746.4	5054.1	594.6	422.0	465.7	517.7	482.3	442.8	447.0	436.6
72.5°	6929.3	6995.9	4392.9	469.9	390.9	430.4	471.9	444.9	409.6	409.6	395.0
75°	6205.8	5835.8	3191.3	392.9	353.4	388.8	426.2	403.3	372.1	361.7	353.4
77.5°	4939.7	4228.7	1854.5	338.9	322.2	349.3	374.2	357.6	330.6	307.7	307.7
80°	3010.4	2478.2	819.1	293.1	284.8	305.6	322.2	303.5	280.7	257.8	251.6
82.5°	1145.5	956.3	397.1	251.6	249.5	262.0	274.4	255.7	239.1	228.7	197.5
85°	313.9	289.0	272.4	210.0	205.8	203.7	218.3	210.0	187.1	153.8	137.2
87.5°	118.5	135.1	147.6	128.9	137.2	126.8	145.5	133.1	118.5	76.9	68.6
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)