

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: P286977

Luminaire Tested: **PFPRV-C60-D-UNV-T4-BZ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P286977  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-8)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PFPRV-C60-D-UNV-T4-BZ  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19984 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

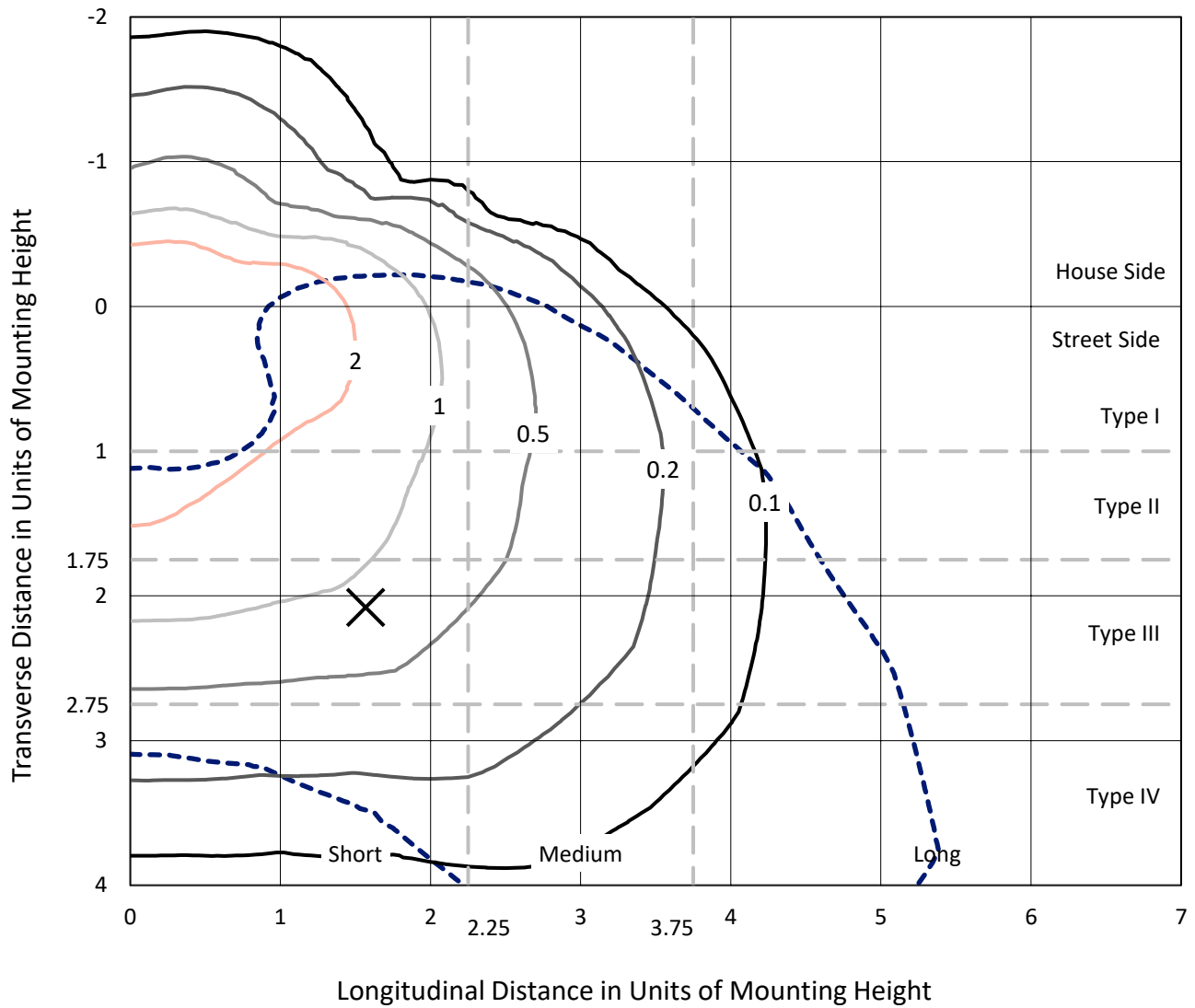
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

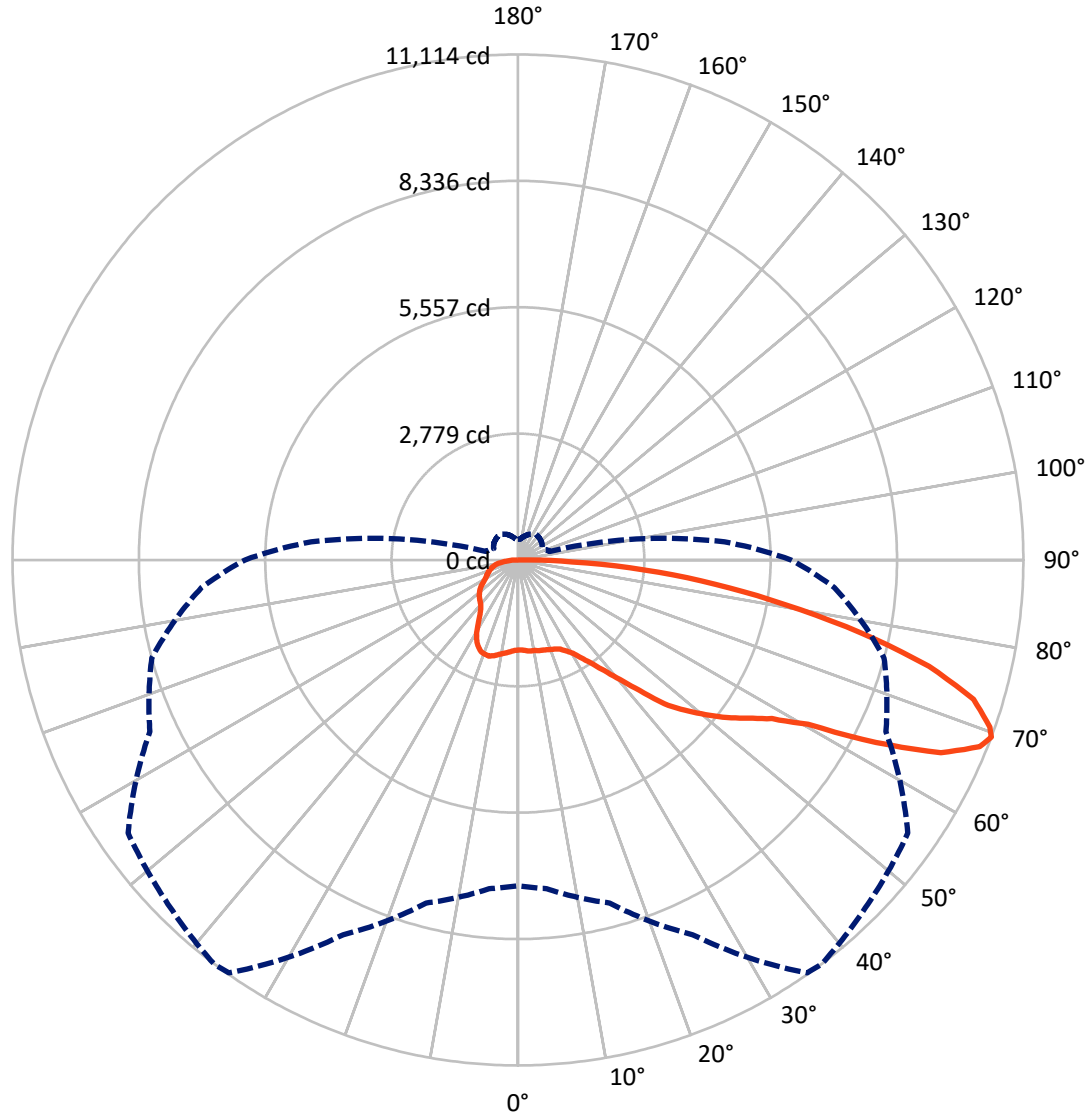
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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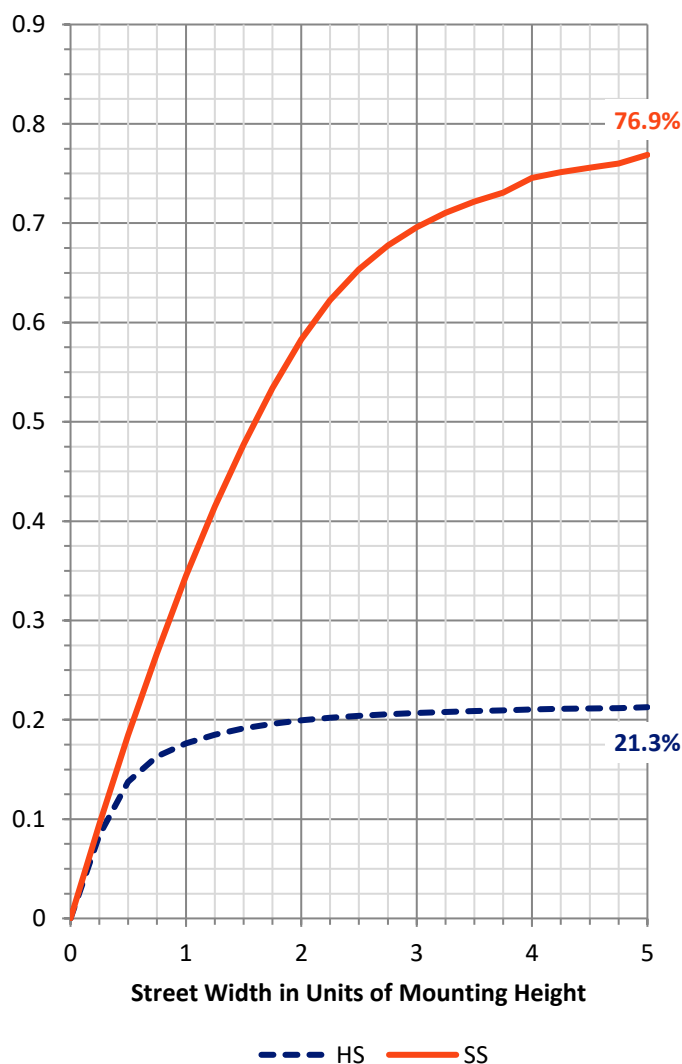
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4309.2	0.0	4309.2
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	15674.8	0.0	15674.8
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	19984.0	0.0	19984.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.2	1.0
10°-20°	603.8	3.0
20°-30°	1031.7	5.2
30°-40°	1635.5	8.2
40°-50°	2779.2	13.9
50°-60°	3940.3	19.7
60°-70°	5014.2	25.1
70°-80°	3848.1	19.3
80°-90°	937.9	4.7
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°	19984.0	100.0
0°-180°	19984.0	100.0

**Coefficient of Utilization**



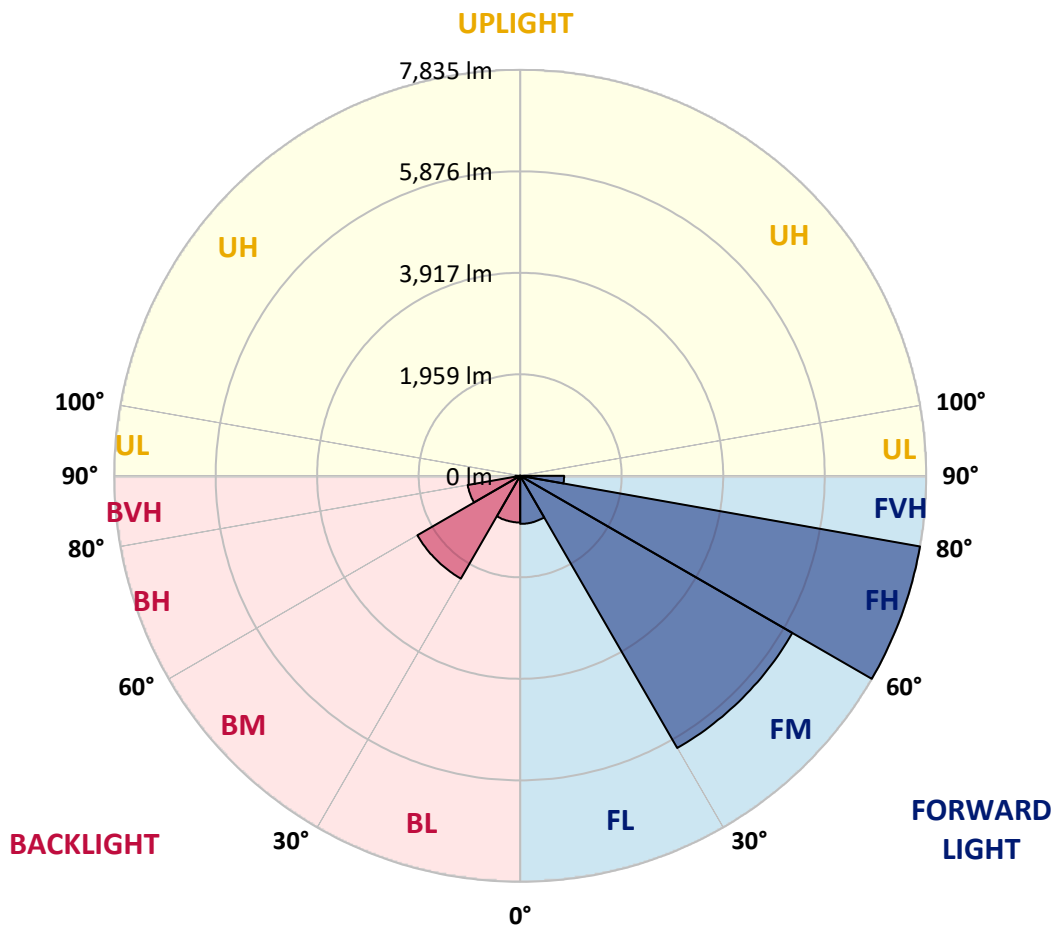
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	927.6	4.6			
FM (30°-60°)	6064.8	30.3			
FH (60°-80°)	7834.5	39.2			G4/12000
FVH (80°-90°)	847.8	4.2			G5
BL (0°-30°)	901.1	4.5	B2/1000		
BM (30°-60°)	2290.2	11.5	B2/2500		
BH (60°-80°)	1027.8	5.1	B3/2500		G3/2500
BVH (80°-90°)	90.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9
2.5°	2017.2	2006.4	2006.4	1983.8	1983.8	1981.9	1986.8	1975.0	1973.1	1971.1	1964.2
5°	2042.6	2038.7	2025.0	2008.3	2016.2	2005.4	2005.4	1989.7	1990.7	1988.7	1978.0
7.5°	2036.8	2043.6	2042.6	2023.0	2017.2	2020.1	2021.1	2022.1	2012.3	2011.3	2003.4
10°	2055.4	2048.5	2051.5	2021.1	2028.9	2022.1	2032.8	2031.9	2031.9	2031.9	2023.0
12.5°	2016.2	2024.0	2027.0	2031.9	2046.6	2046.6	2064.2	2071.1	2085.8	2095.6	2083.8
15°	2005.4	1998.5	2027.0	2024.0	2058.3	2055.4	2083.8	2122.0	2134.8	2161.2	2168.1
17.5°	1999.5	2013.2	2034.8	2033.8	2067.1	2074.0	2113.2	2156.3	2192.6	2236.7	2252.4
20°	2016.2	2016.2	2038.7	2048.5	2099.5	2099.5	2140.7	2194.6	2251.4	2316.1	2349.4
22.5°	2069.1	2071.1	2091.7	2080.9	2113.2	2125.0	2160.3	2221.0	2309.2	2379.8	2448.4
25°	2099.5	2111.3	2135.8	2132.8	2164.2	2173.0	2215.2	2293.6	2388.6	2481.8	2596.4
27.5°	2170.1	2171.0	2190.6	2184.8	2259.3	2263.2	2301.4	2361.2	2499.4	2606.2	2767.0
30°	2272.0	2277.9	2290.6	2308.3	2385.7	2381.8	2407.3	2486.7	2620.0	2764.0	2982.6
32.5°	2493.5	2480.8	2465.1	2468.0	2544.5	2566.0	2615.1	2709.2	2873.8	3048.3	3284.5
35°	2870.9	2863.0	2806.2	2739.5	2766.0	2791.5	2871.9	3052.2	3306.1	3715.8	3926.5
37.5°	3363.9	3387.4	3280.6	3138.5	3080.6	3086.5	3161.0	3405.1	3819.7	4594.0	4727.3
40°	3988.3	3953.0	3821.6	3631.5	3485.4	3455.0	3478.6	3791.2	4394.0	5368.3	5393.8
42.5°	4444.0	4448.9	4299.9	4161.7	3970.6	3913.8	3874.6	4170.6	4988.0	5965.2	5875.1
45°	4972.3	5010.6	4847.8	4705.7	4571.4	4512.6	4453.8	4635.2	5602.6	6439.6	6284.8
47.5°	5420.3	5427.1	5217.4	5111.5	4962.5	4936.1	4879.2	5053.7	6102.4	6812.1	6600.4
50°	5835.8	5907.4	5634.9	5484.0	5359.5	5342.8	5363.4	5528.1	6589.6	7134.6	6855.2
52.5°	6549.4	6439.6	6121.1	5836.8	5759.4	5760.4	5756.5	6025.0	7093.4	7406.1	7065.0
55°	7207.1	6993.4	6641.5	6322.0	6132.8	6134.8	6168.1	6496.5	7510.9	7667.8	7208.1
57.5°	7618.7	7736.4	7413.9	6934.6	6576.8	6582.7	6581.7	6937.5	7869.7	7898.1	7318.8
60°	8219.6	8359.7	8275.5	7915.7	7435.5	7329.6	7062.0	7435.5	8238.2	8118.6	7436.4
62.5°	8658.7	8762.6	8996.8	8795.9	8823.4	8834.1	7993.2	8003.0	8501.9	8300.9	7461.9
65°	8659.7	8657.7	9201.7	9452.6	10106.4	10220.1	9866.2	8787.1	8751.8	8330.3	7363.9
67.5°	7832.4	7883.4	8455.8	9387.9	10867.0	10952.3	10725.8	10027.0	8881.2	8363.7	7205.1
69°	7164.0	7254.1	7807.9	9090.0	11082.6	11114.0	10808.2	10464.1	8928.2	8335.2	6983.6
70°	6721.9	6725.8	7290.4	8722.4	10973.8	11009.1	10802.3	10538.6	8888.1	8254.9	6809.1
72.5°	5304.6	5360.5	5860.4	7410.0	10439.6	10473.9	10402.4	10342.6	8830.2	7899.1	5856.4
75°	3878.5	3915.7	4372.5	5804.5	9129.2	9336.0	9649.6	9984.8	8228.4	6792.5	4408.7
77.5°	2719.9	2768.9	3239.4	4405.8	7435.5	7719.7	8426.4	8740.0	6971.8	5320.3	2458.2
80°	1816.2	1877.0	2304.3	3281.6	5660.4	5950.5	6768.0	6903.2	5333.0	3191.4	487.1
82.5°	1155.6	1171.3	1511.4	2319.0	4209.8	4376.4	4672.4	4389.1	2826.8	727.3	144.1
85°	674.3	702.8	914.5	1455.5	2595.5	2785.6	2915.0	2177.9	683.2	98.0	77.4
87.5°	253.9	265.6	370.5	629.3	1214.4	1195.8	1160.5	735.1	122.5	45.1	35.3
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°	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9
2.5°	1963.3	1980.9	1972.1	1968.2	1966.2	1976.0	1994.6	1989.7	1986.8	2019.1	2022.1
5°	1978.0	2002.5	2001.5	2005.4	1999.5	2011.3	2020.1	2023.0	2026.0	2060.3	2065.2
7.5°	2005.4	2016.2	2020.1	2035.8	2027.0	2045.6	2061.3	2045.6	2060.3	2084.8	2089.7
10°	2029.9	2046.6	2047.5	2072.0	2063.2	2080.9	2084.8	2084.8	2096.6	2125.0	2120.1
12.5°	2088.7	2089.7	2124.0	2126.0	2137.7	2136.7	2128.9	2106.4	2095.6	2133.8	2136.7
15°	2174.0	2184.8	2228.9	2225.9	2211.2	2203.4	2170.1	2114.2	2081.9	2076.0	2076.0
17.5°	2276.9	2279.8	2336.7	2324.9	2301.4	2250.4	2195.5	2096.6	2005.4	1976.0	1958.4
20°	2361.2	2385.7	2455.3	2415.1	2373.9	2291.6	2171.0	2034.8	1893.7	1822.1	1803.5
22.5°	2475.9	2523.9	2564.1	2505.3	2419.0	2299.4	2140.7	1944.6	1759.4	1647.6	1628.0
25°	2638.6	2666.0	2664.1	2562.1	2425.9	2274.9	2053.4	1817.2	1590.8	1468.3	1432.0
27.5°	2806.2	2825.8	2743.5	2605.3	2402.4	2205.4	1939.7	1650.6	1420.2	1310.5	1283.0
30°	2996.3	2976.7	2805.2	2586.6	2340.6	2082.8	1780.0	1467.3	1272.2	1175.2	1160.5
32.5°	3289.4	3188.4	2860.1	2543.5	2228.9	1914.2	1584.9	1336.0	1176.2	1062.5	1042.9
35°	3798.1	3584.4	2958.1	2505.3	2093.6	1725.1	1417.3	1244.8	1090.9	956.6	931.1
37.5°	4455.8	4115.7	3142.4	2439.6	1933.8	1540.8	1310.5	1168.3	1026.2	877.2	848.8
40°	5100.7	4671.4	3390.4	2373.9	1782.9	1415.3	1249.7	1138.0	1000.7	847.8	817.4
42.5°	5571.2	5116.4	3660.9	2311.2	1636.9	1317.3	1219.3	1129.1	1001.7	852.7	824.3
45°	5926.0	5469.3	3935.3	2225.0	1466.3	1241.9	1190.9	1120.3	1000.7	857.6	822.4
47.5°	6238.7	5700.6	4124.5	2111.3	1304.6	1183.0	1156.6	1087.0	976.2	837.1	806.7
50°	6459.2	5920.1	4248.0	2012.3	1180.1	1131.1	1108.6	1033.1	918.4	796.9	761.6
52.5°	6615.1	6062.3	4262.7	1987.8	1086.0	1086.0	1050.7	972.3	861.6	739.0	704.7
55°	6778.8	6143.6	4199.0	1896.6	987.0	1011.5	989.0	931.1	824.3	698.9	677.3
57.5°	6771.9	6102.4	4071.6	1524.1	876.3	901.7	910.6	894.9	810.6	708.7	688.1
60°	6817.0	6060.3	3859.9	1059.5	771.4	810.6	847.8	847.8	767.5	646.9	625.3
62.5°	6793.5	5963.3	3408.0	746.9	688.1	750.8	797.8	761.6	683.2	581.2	567.5
65°	6640.6	5686.9	2556.2	634.2	658.7	716.5	759.6	703.8	623.4	525.4	515.6
67.5°	6361.2	5178.2	1359.5	593.0	645.9	693.0	716.5	655.7	576.3	477.3	466.6
69°	6005.4	4562.6	729.2	587.1	644.0	673.4	690.0	627.3	541.0	453.8	453.8
70°	5636.9	4075.5	471.5	590.1	636.1	661.6	671.4	607.7	520.5	429.3	425.4
72.5°	4416.6	2620.9	394.0	560.6	612.6	624.4	623.4	555.7	456.8	326.4	332.3
75°	2680.7	799.8	376.4	512.6	573.4	597.9	582.2	466.6	355.8	273.5	273.5
77.5°	729.2	280.3	356.8	467.5	523.4	530.3	525.4	434.2	317.6	226.4	228.4
80°	217.6	217.6	332.3	390.1	444.0	475.4	450.9	381.3	254.8	119.6	123.5
82.5°	125.5	141.1	278.4	274.4	358.7	357.8	357.8	272.5	172.5	78.4	63.7
85°	66.7	100.0	150.9	157.8	168.6	190.2	257.8	235.2	130.4	35.3	7.8
87.5°	38.2	56.8	41.2	29.4	61.7	112.7	166.6	159.8	108.8	1.0	0.0
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)