

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: P381375

Luminaire Tested: **PRV-PA2B-730-U-T2U-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2B-730-U-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12525 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

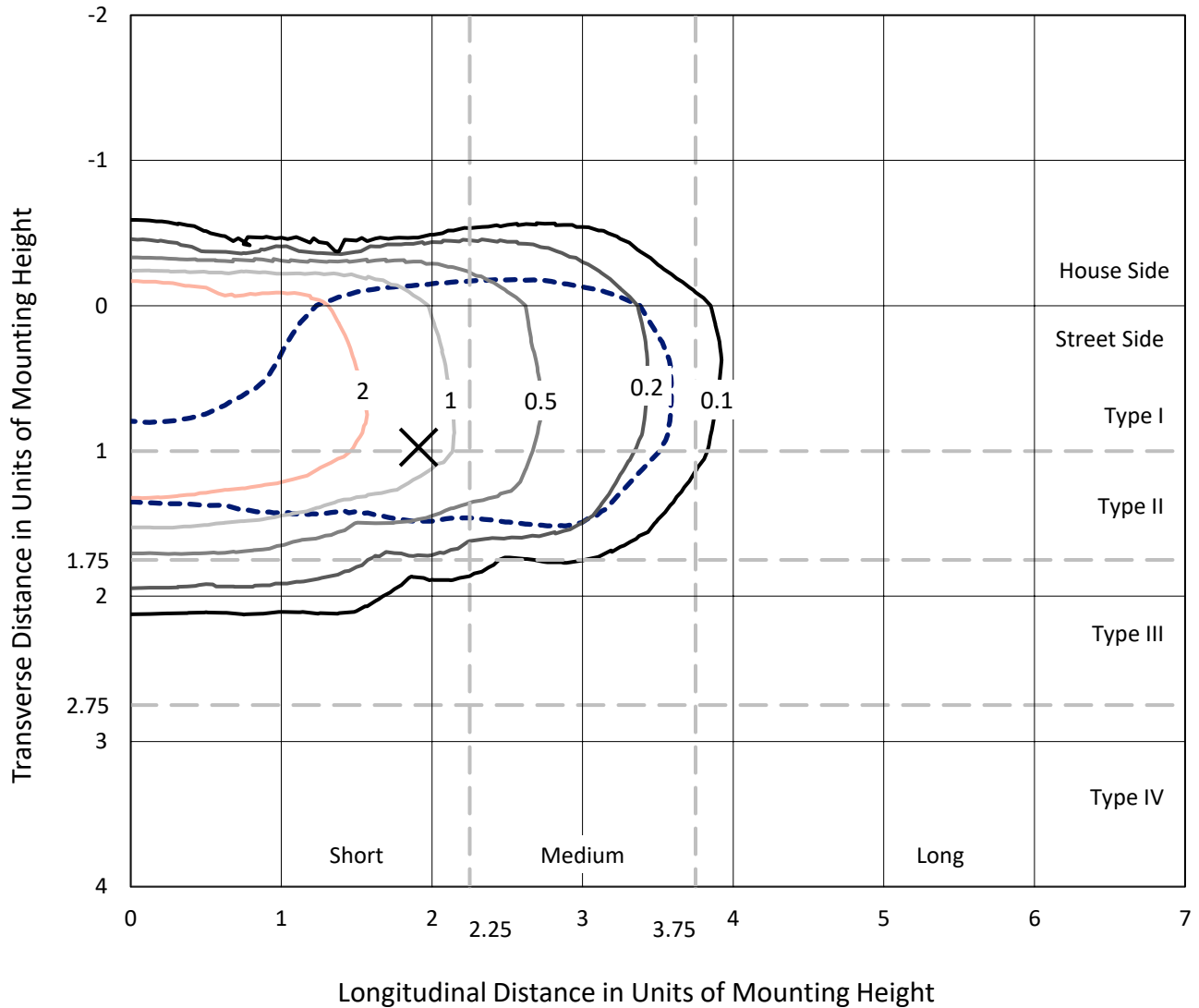
Input Watts (W): 151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

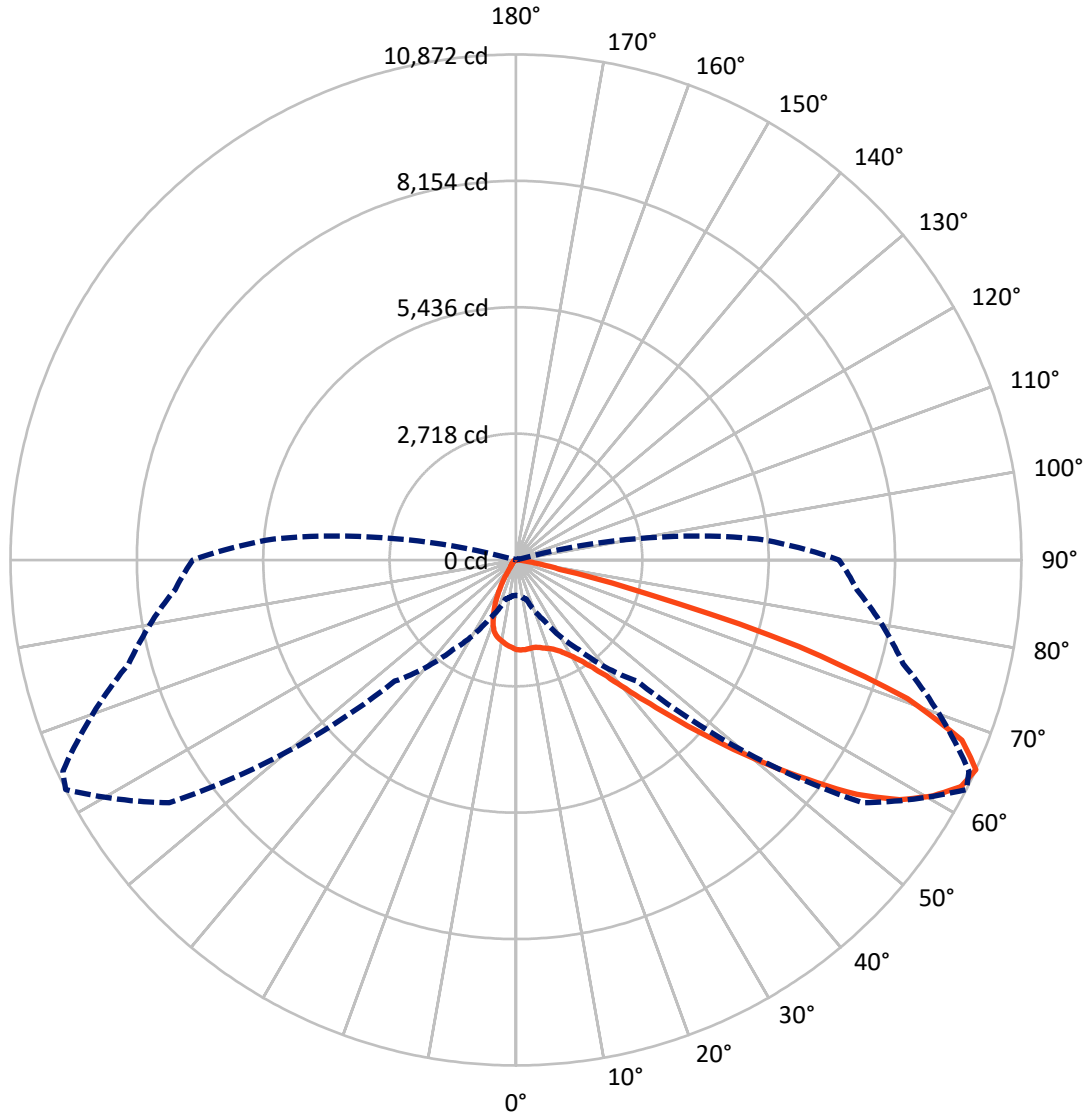
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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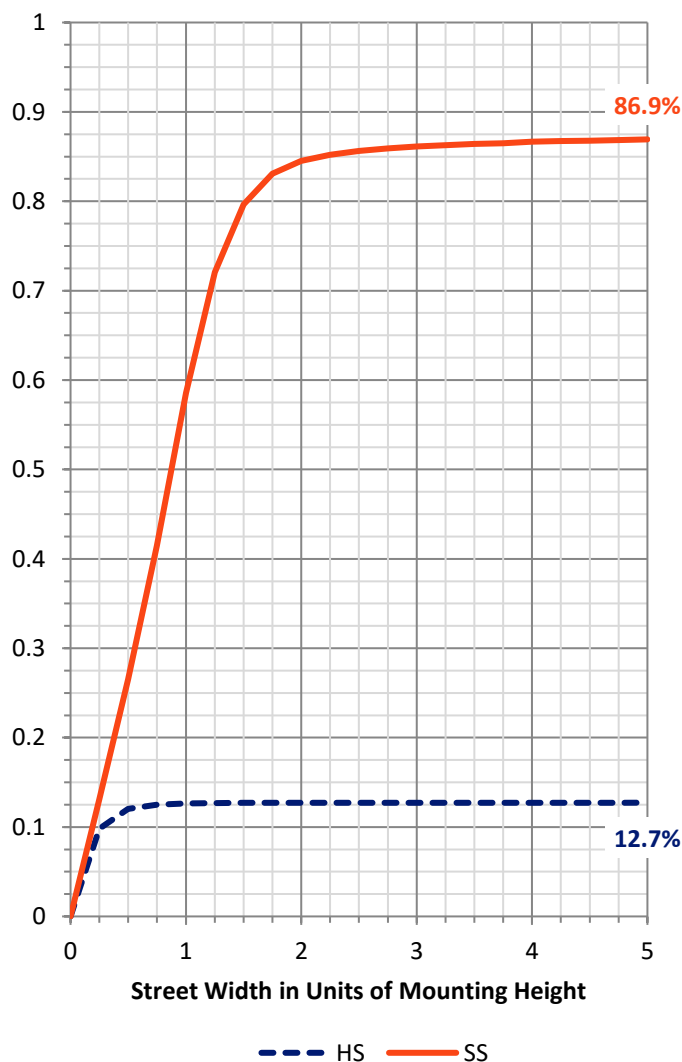
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1612.0	0.0	1612.0
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	10913.0	0.0	10913.0
	% Fixture	87.1	0.0	87.1
Total	Lumens	12525.0	0.0	12525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.1	1.4
10°-20°	434.3	3.5
20°-30°	643.8	5.1
30°-40°	1195.3	9.5
40°-50°	2532.1	20.2
50°-60°	3501.3	28.0
60°-70°	2802.9	22.4
70°-80°	1164.5	9.3
80°-90°	74.8	0.6
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°	12525.0	100.0
0°-180°	12525.0	100.0

Coefficient of Utilization

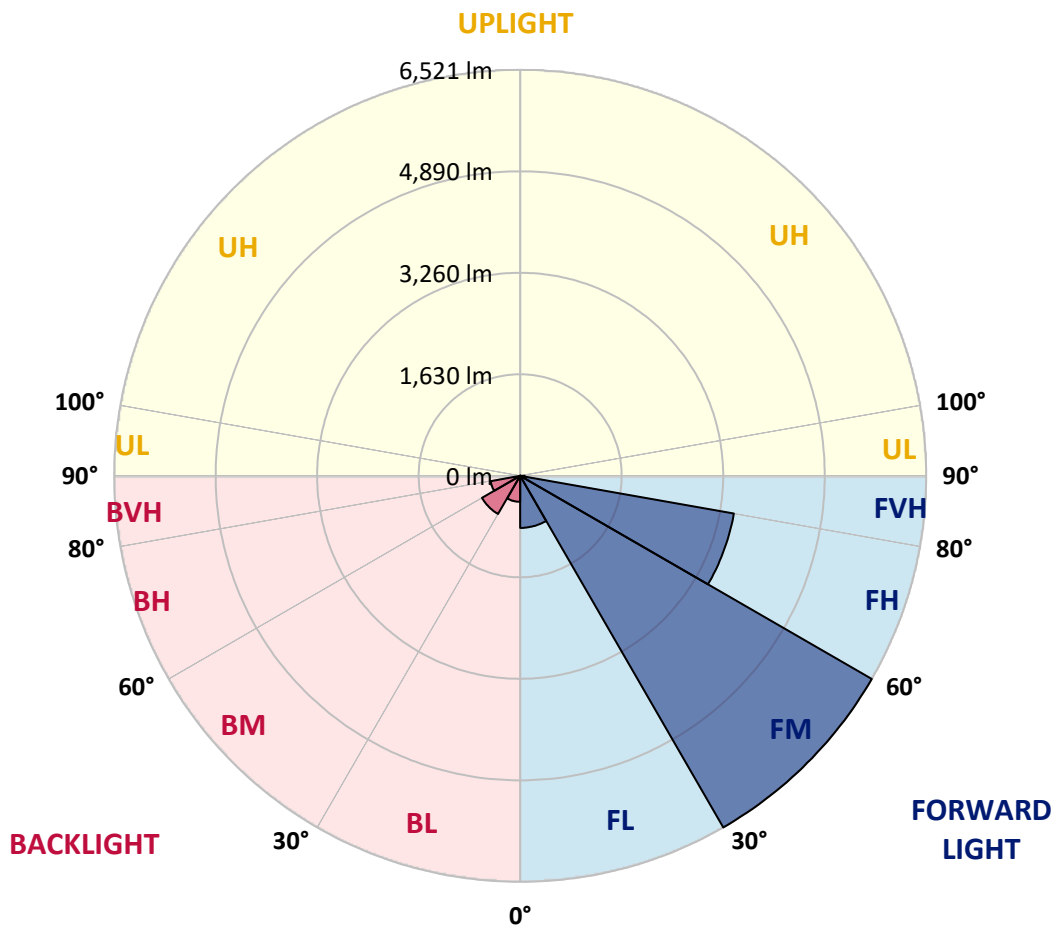


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	836.4	6.7			
FM (30°-60°)	6520.6	52.1			
FH (60°-80°)	3484.7	27.8			G2/5000
FVH (80°-90°)	71.4	0.6			G1/100
BL (0°-30°)	417.8	3.3	B1/500		
BM (30°-60°)	708.1	5.7	B1/1000		
BH (60°-80°)	482.7	3.9	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5
2.5°	1962.6	1957.9	1953.1	1950.8	1950.8	1948.4	1938.9	1936.6	1931.8	1927.1	1922.4
5°	1943.7	1936.6	1934.2	1936.6	1938.9	1943.7	1938.9	1938.9	1934.2	1929.5	1920.0
7.5°	1896.4	1891.6	1894.0	1901.1	1903.5	1920.0	1922.4	1929.5	1929.5	1924.8	1917.7
10°	1839.6	1837.3	1837.3	1849.1	1860.9	1884.6	1901.1	1920.0	1922.4	1922.4	1910.6
12.5°	1797.1	1794.7	1801.8	1816.0	1839.6	1870.4	1898.7	1927.1	1931.8	1934.2	1915.3
15°	1771.1	1771.1	1780.5	1808.9	1842.0	1884.6	1917.7	1955.5	1960.2	1957.9	1931.8
17.5°	1747.4	1749.8	1768.7	1816.0	1853.8	1910.6	1950.8	1993.3	1995.7	1993.3	1950.8
20°	1738.0	1742.7	1771.1	1832.5	1875.1	1938.9	1991.0	2033.5	2035.9	2026.4	1969.7
22.5°	1764.0	1766.3	1801.8	1868.0	1908.2	1979.1	2045.3	2085.5	2087.9	2073.7	1998.1
25°	1853.8	1853.8	1884.6	1941.3	1976.8	2047.7	2118.6	2165.9	2165.9	2149.4	2061.9
27.5°	2064.3	2045.3	2038.3	2054.8	2066.6	2142.3	2218.0	2277.1	2274.7	2251.1	2144.7
30°	2471.0	2423.7	2348.0	2262.9	2220.3	2272.3	2343.3	2418.9	2416.6	2378.7	2246.3
32.5°	3154.3	3085.8	2906.0	2681.4	2499.3	2440.2	2506.4	2589.2	2591.6	2546.6	2409.5
35°	4112.0	4003.2	3681.6	3369.5	2953.3	2728.7	2747.6	2837.5	2865.8	2842.2	2683.8
37.5°	5034.2	4934.8	4627.4	4194.7	3629.6	3170.9	3090.5	3168.5	3201.6	3201.6	3033.7
40°	5963.4	5847.6	5575.6	5140.6	4544.7	3861.3	3572.9	3636.7	3672.2	3679.3	3459.4
42.5°	6708.3	6632.6	6424.5	6086.4	5528.3	5072.0	4268.0	4232.6	4265.7	4239.7	3953.5
45°	7223.7	7164.6	7020.4	6892.7	6620.8	6391.4	5197.3	4958.5	4979.8	4889.9	4509.2
47.5°	7330.1	7263.9	7233.2	7410.5	7604.4	7661.2	6339.4	5821.6	5800.3	5601.6	5086.2
50°	6866.7	6873.8	6987.3	7493.3	8302.0	8812.7	7663.5	6795.8	6717.7	6275.5	5622.9
52.5°	5866.5	5980.0	6266.1	7086.6	8514.8	9649.8	8987.7	7829.1	7708.5	6930.5	6024.9
55°	4589.6	4736.2	5206.8	6150.2	8070.3	10023.4	10103.8	8902.6	8628.3	7422.4	6337.0
57.5°	3412.1	3457.0	4005.6	4866.3	7018.0	9656.9	10676.0	9730.2	9377.9	7814.9	6646.8
60°	2125.7	2154.1	2733.4	3705.3	5315.5	8302.0	10676.0	10300.0	9964.3	8167.2	6930.5
62.5°	1321.8	1331.2	1548.8	2539.5	3613.1	6157.3	10233.8	10742.2	10472.6	8420.2	7174.1
65°	761.4	770.8	872.5	1435.3	2350.4	3686.4	9103.6	10872.3	10751.7	8621.2	7363.2
67.5°	555.7	560.4	600.6	806.3	1537.0	1894.0	6838.3	10349.7	10501.0	8720.5	7358.5
70°	482.4	489.5	541.5	629.0	1109.0	1163.4	3480.6	8938.0	9361.3	8578.6	7138.6
72.5°	371.2	380.7	458.7	591.1	813.4	837.1	1260.3	6360.7	7001.5	7691.9	6535.7
75°	255.4	264.8	342.9	487.1	671.5	626.6	692.8	2927.3	3693.4	5159.5	4975.0
77.5°	163.2	165.5	215.2	354.7	579.3	444.5	475.3	955.3	1340.7	2333.8	2348.0
80°	108.8	111.1	132.4	229.4	397.2	411.4	293.2	442.2	484.7	681.0	472.9
82.5°	66.2	66.2	89.9	144.2	241.2	340.5	191.5	231.7	248.3	262.5	123.0
85°	26.0	26.0	54.4	94.6	151.3	158.4	120.6	134.8	141.9	153.7	56.7
87.5°	7.1	7.1	30.7	52.0	66.2	73.3	73.3	66.2	70.9	87.5	28.4
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°	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5	1929.5
2.5°	1920.0	1912.9	1903.5	1894.0	1884.6	1877.5	1870.4	1870.4	1865.6	1858.5	1853.8
5°	1915.3	1903.5	1882.2	1865.6	1839.6	1820.7	1806.5	1794.7	1787.6	1771.1	1768.7
7.5°	1908.2	1894.0	1863.3	1830.2	1787.6	1754.5	1721.4	1697.8	1674.1	1655.2	1650.5
10°	1896.4	1879.8	1834.9	1787.6	1728.5	1667.0	1589.0	1499.1	1416.4	1369.1	1354.9
12.5°	1896.4	1875.1	1816.0	1752.1	1667.0	1515.7	1317.1	1118.4	964.7	896.2	877.3
15°	1908.2	1879.8	1801.8	1714.3	1555.9	1248.5	926.9	664.4	496.6	444.5	432.7
17.5°	1920.0	1879.8	1780.5	1662.3	1352.5	905.6	527.3	350.0	295.6	283.7	283.7
20°	1924.8	1875.1	1752.1	1565.3	1080.6	562.8	314.5	262.5	241.2	234.1	234.1
22.5°	1943.7	1877.5	1730.9	1425.8	785.0	331.0	248.3	219.9	198.6	191.5	191.5
25°	1991.0	1905.8	1735.6	1248.5	503.7	250.6	210.4	182.1	160.8	151.3	151.3
27.5°	2066.6	1969.7	1761.6	1042.8	316.9	215.2	177.3	146.6	130.1	120.6	120.6
30°	2151.8	2040.6	1773.4	806.3	236.5	182.1	144.2	115.9	104.0	96.9	94.6
32.5°	2300.7	2163.6	1764.0	553.3	193.9	153.7	115.9	92.2	82.8	80.4	80.4
35°	2539.5	2378.7	1745.0	347.6	160.8	123.0	92.2	75.7	68.6	66.2	63.8
37.5°	2863.5	2693.2	1688.3	229.4	132.4	96.9	75.7	63.8	56.7	54.4	54.4
40°	3258.4	3052.7	1579.5	175.0	113.5	78.0	63.8	54.4	49.7	47.3	47.3
42.5°	3710.0	3452.3	1406.9	151.3	94.6	66.2	54.4	44.9	42.6	40.2	40.2
45°	4204.2	3870.8	1168.1	134.8	80.4	54.4	44.9	40.2	35.5	35.5	33.1
47.5°	4729.1	4291.7	898.5	118.2	68.6	47.3	40.2	33.1	30.7	28.4	28.4
50°	5235.1	4667.6	631.3	101.7	56.7	40.2	33.1	28.4	26.0	23.6	23.6
52.5°	5592.2	4894.6	446.9	87.5	47.3	35.5	26.0	21.3	18.9	18.9	18.9
55°	5878.3	5036.5	312.1	73.3	40.2	30.7	21.3	16.6	16.6	14.2	14.2
57.5°	6147.9	5128.7	229.4	61.5	33.1	23.6	16.6	11.8	11.8	9.5	9.5
60°	6426.9	5178.4	175.0	49.7	28.4	18.9	11.8	9.5	7.1	7.1	7.1
62.5°	6708.3	5209.1	134.8	40.2	23.6	14.2	9.5	7.1	4.7	2.4	2.4
65°	6954.2	5218.6	104.0	30.7	18.9	9.5	7.1	2.4	0.0	0.0	0.0
67.5°	7027.5	5109.8	80.4	23.6	14.2	7.1	4.7	0.0	0.0	0.0	0.0
70°	6828.9	4821.3	61.5	18.9	11.8	4.7	2.4	0.0	0.0	0.0	0.0
72.5°	6060.4	4043.4	47.3	11.8	9.5	4.7	2.4	0.0	0.0	0.0	0.0
75°	4336.6	2156.5	33.1	9.5	7.1	2.4	0.0	0.0	0.0	0.0	0.0
77.5°	1995.7	834.7	23.6	7.1	4.7	2.4	0.0	0.0	0.0	0.0	0.0
80°	390.2	208.1	9.5	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	89.9	35.5	4.7	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.7	11.8	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)