

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: P380861

Luminaire Tested: **PRV-PA1B-730-U-T2R**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380861  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-PA1B-730-U-T2R  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9012 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

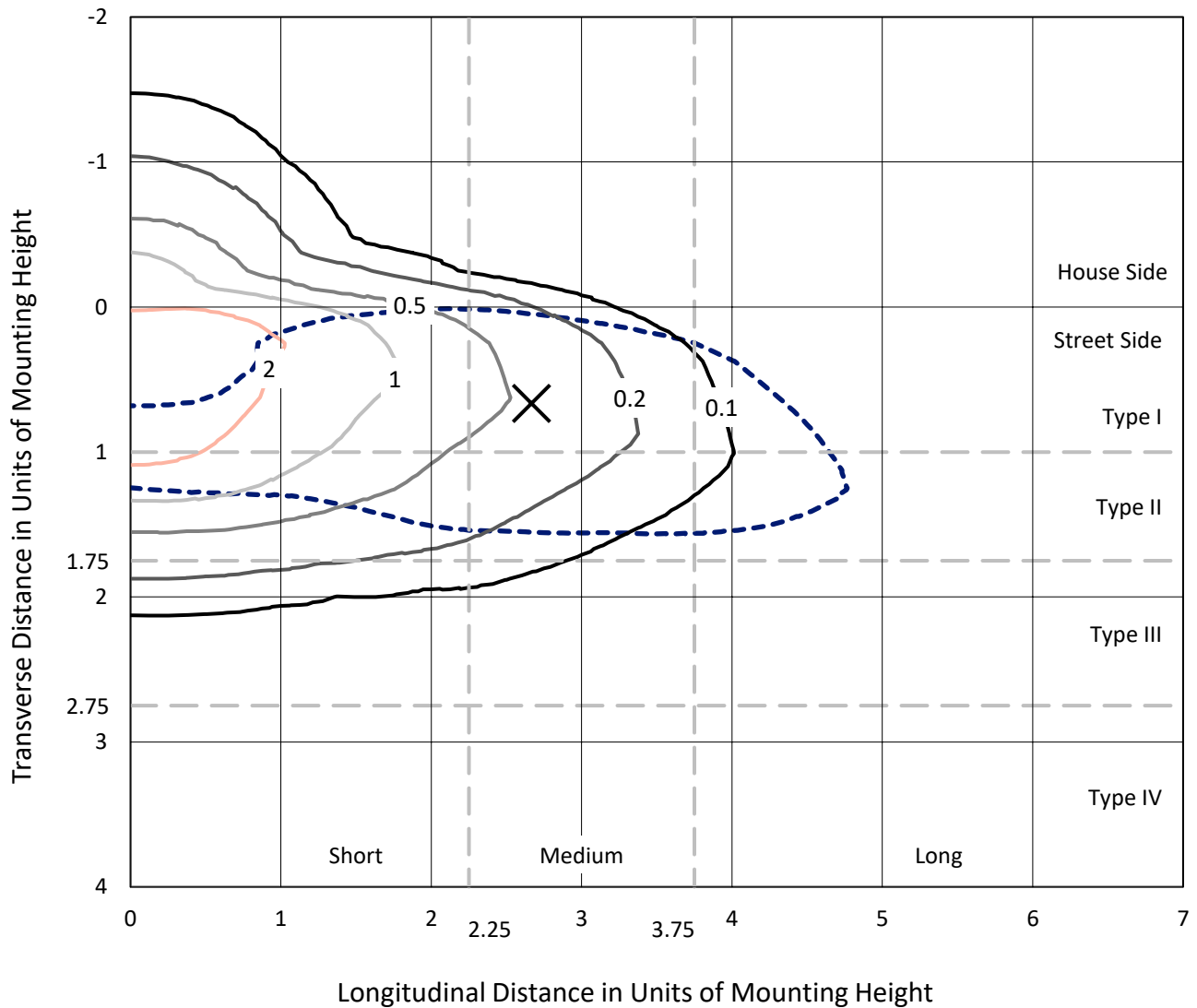
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

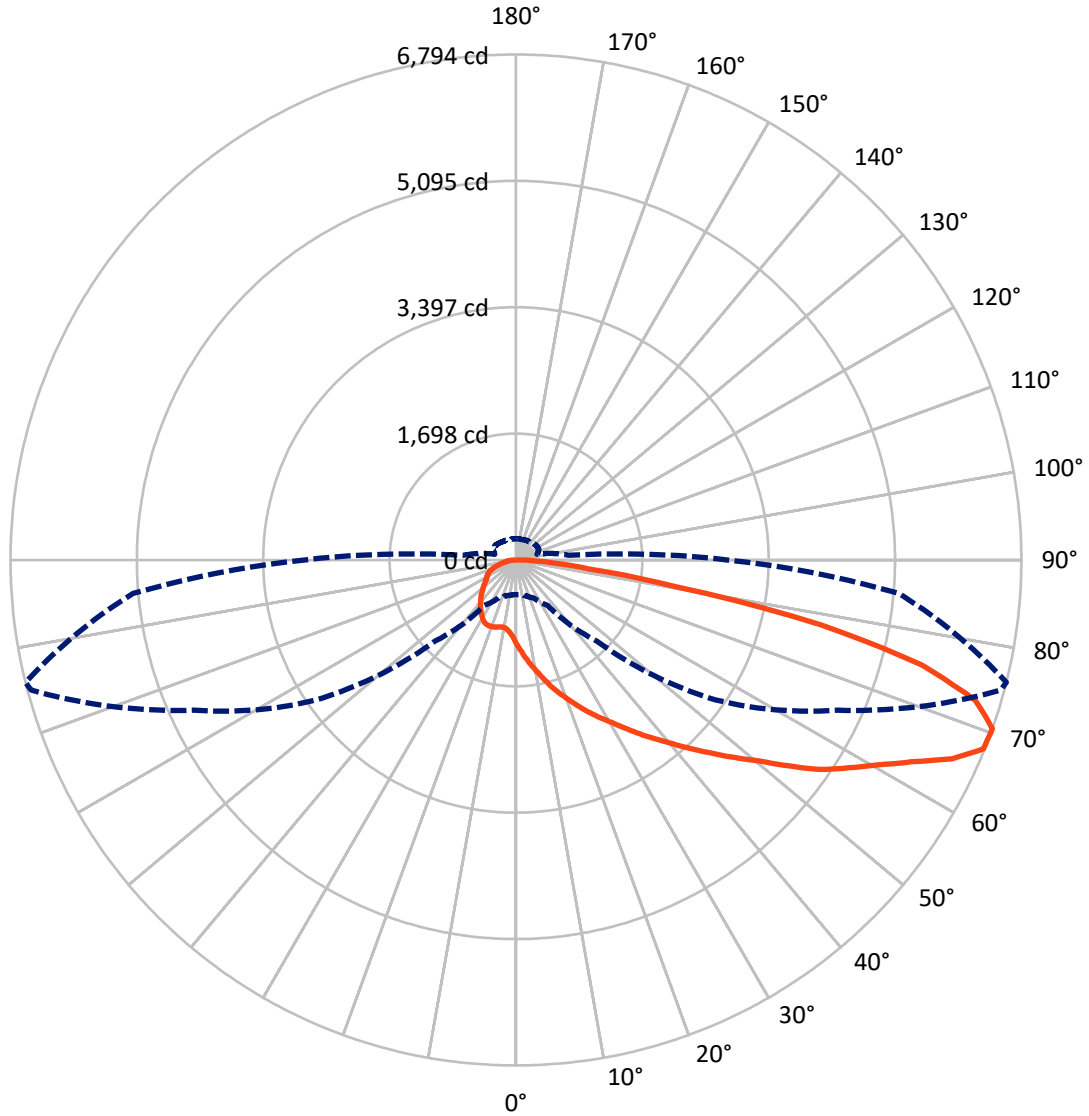
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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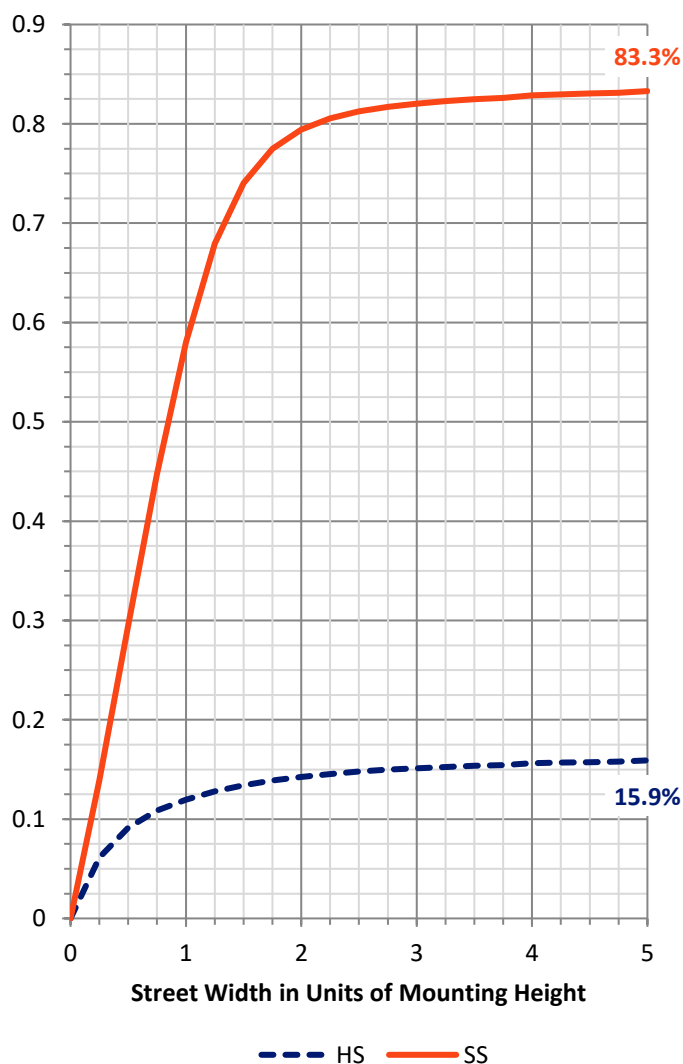
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1471.3	0.0	1471.3
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	7540.7	0.0	7540.7
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	9012.0	0.0	9012.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.1	1.3
10°-20°	398.0	4.4
20°-30°	712.0	7.9
30°-40°	1151.8	12.8
40°-50°	1666.3	18.5
50°-60°	1907.2	21.2
60°-70°	1754.4	19.5
70°-80°	1084.9	12.0
80°-90°	220.3	2.4
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°	9012.0	100.0
0°-180°	9012.0	100.0

**Coefficient of Utilization**



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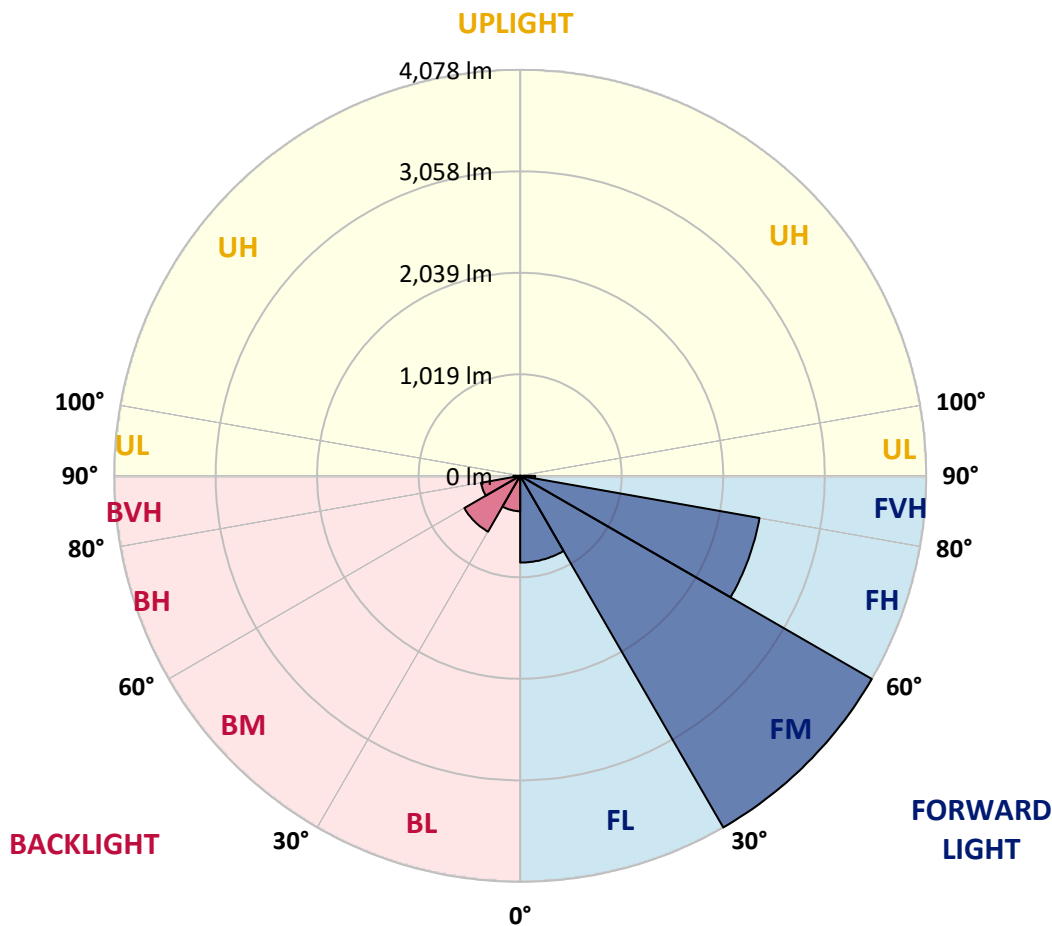
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	871.8	9.7			
FM (30°-60°)	4077.5	45.2			
FH (60°-80°)	2440.2	27.1			G2/5000
FVH (80°-90°)	151.2	1.7			G2/225
BL (0°-30°)	355.4	3.9	B1/500		
BM (30°-60°)	647.8	7.2	B1/1000		
BH (60°-80°)	399.1	4.4	B1/500		G1/500
BVH (80°-90°)	69.1	0.8			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0
2.5°	1436.3	1425.6	1424.4	1407.8	1392.4	1351.0	1321.3	1269.2	1217.1	1215.9	1163.7
5°	1660.3	1649.6	1643.7	1623.5	1597.5	1542.9	1489.6	1409.0	1320.2	1314.2	1215.9
7.5°	1812.0	1802.5	1790.6	1782.3	1757.4	1708.9	1643.7	1547.7	1425.6	1413.8	1276.3
10°	1913.9	1907.9	1905.6	1899.6	1884.2	1845.1	1782.3	1680.4	1531.1	1518.1	1340.3
12.5°	1957.7	1955.3	1966.0	1982.6	1988.5	1973.1	1912.7	1816.7	1647.2	1633.0	1417.3
15°	1906.8	1909.1	1936.4	1993.3	2053.7	2086.9	2051.3	1957.7	1778.8	1758.6	1507.4
17.5°	1883.1	1886.6	1905.6	1960.1	2045.4	2148.5	2165.1	2091.6	1905.6	1877.1	1602.2
20°	1924.5	1929.3	1943.5	1986.2	2045.4	2155.6	2242.1	2219.6	2030.0	2000.4	1693.4
22.5°	2030.0	2035.9	2034.7	2062.0	2102.3	2178.1	2284.8	2340.5	2160.4	2127.2	1788.3
25°	2255.2	2250.4	2210.1	2197.1	2207.8	2256.3	2341.7	2456.6	2296.6	2263.5	1887.8
27.5°	2560.9	2555.0	2481.5	2415.1	2355.9	2377.2	2422.3	2550.2	2435.3	2397.4	1982.6
30°	2888.0	2880.9	2795.5	2687.7	2556.2	2525.4	2519.4	2632.0	2575.1	2534.8	2083.3
32.5°	3206.8	3200.8	3109.6	2984.0	2802.7	2710.2	2653.3	2723.3	2733.9	2694.8	2193.5
35°	3497.1	3497.1	3418.9	3269.6	3064.6	2924.7	2831.1	2835.8	2916.4	2871.4	2319.2
37.5°	3755.4	3754.3	3668.9	3522.0	3325.3	3165.3	3049.2	2972.1	3090.6	3051.5	2450.7
40°	3960.5	3952.2	3889.4	3761.4	3563.5	3404.7	3287.3	3132.1	3285.0	3249.4	2590.5
42.5°	4109.8	4105.0	4062.4	3951.0	3762.6	3613.2	3532.7	3333.6	3505.4	3469.8	2754.1
45°	4167.8	4177.3	4177.3	4071.9	3922.5	3786.3	3750.7	3555.2	3743.6	3708.0	2929.5
47.5°	4074.2	4099.1	4150.1	4157.2	4025.6	3933.2	3945.1	3778.0	3988.9	3969.9	3121.4
50°	3781.5	3827.7	3939.1	4140.6	4067.1	4045.8	4111.0	4005.5	4252.0	4246.1	3354.9
52.5°	3026.6	3139.2	3486.4	3847.9	4038.7	4097.9	4275.7	4261.5	4590.9	4600.4	3659.5
55°	2321.5	2364.2	2765.9	3381.0	3864.5	4081.3	4385.9	4511.5	4958.3	4970.1	3939.1
57.5°	1877.1	1905.6	2124.8	2765.9	3467.5	3991.3	4472.4	4657.3	5240.3	5271.1	4188.0
60°	1487.2	1528.7	1675.7	2116.5	2911.7	3774.4	4532.8	4819.6	5543.7	5589.9	4485.4
62.5°	1105.7	1125.8	1264.5	1567.8	2304.9	3384.5	4500.8	4996.2	5915.8	5971.5	4843.3
65°	786.9	804.7	903.0	1115.1	1704.1	2857.2	4314.8	5127.7	6382.7	6439.6	5203.6
67.5°	589.0	596.1	651.8	779.8	1148.3	2219.6	3937.9	5105.2	6724.0	6775.0	5348.2
70°	465.7	468.1	495.4	564.1	746.6	1545.3	3277.9	4774.6	6748.9	6793.9	5165.7
72.5°	386.3	385.1	400.5	433.7	520.2	977.7	2428.2	4160.7	6428.9	6459.7	4656.1
75°	318.8	321.2	331.8	350.8	397.0	644.7	1573.8	3319.3	5671.7	5638.5	3907.1
77.5°	267.8	266.6	271.4	288.0	321.2	463.4	922.0	2398.6	4203.4	4186.8	2564.5
80°	215.7	218.1	225.2	239.4	270.2	353.1	545.1	1496.7	2255.2	2194.7	1225.3
82.5°	144.6	167.1	181.3	197.9	233.5	260.7	346.0	760.8	1008.5	993.1	555.8
85°	68.7	91.2	135.1	154.1	189.6	163.5	234.6	362.6	504.8	498.9	200.3
87.5°	14.2	14.2	72.3	86.5	117.3	69.9	130.4	157.6	244.1	228.7	81.8
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°	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0
2.5°	1132.9	1100.9	1036.9	986.0	933.8	904.2	867.5	849.7	846.1	836.7	843.8
5°	1153.1	1090.3	969.4	890.0	836.7	810.6	797.5	792.8	791.6	789.2	789.2
7.5°	1180.3	1084.3	926.7	846.1	811.8	803.5	807.0	814.1	815.3	817.7	816.5
10°	1213.5	1085.5	903.0	835.5	818.9	820.1	831.9	841.4	846.1	849.7	848.5
12.5°	1259.7	1099.7	899.5	842.6	835.5	840.2	852.1	861.5	866.3	867.5	867.5
15°	1320.2	1129.4	907.8	858.0	852.1	855.6	862.7	866.3	867.5	866.3	866.3
17.5°	1386.5	1164.9	919.6	867.5	858.0	854.4	852.1	848.5	841.4	836.7	836.7
20°	1450.5	1196.9	925.5	866.3	849.7	835.5	821.2	803.5	791.6	782.1	782.1
22.5°	1514.5	1226.5	925.5	853.2	827.2	799.9	770.3	741.8	724.1	712.2	712.2
25°	1582.1	1255.0	918.4	830.7	791.6	752.5	712.2	676.7	658.9	647.0	644.7
27.5°	1638.9	1271.6	899.5	798.7	747.8	698.0	651.8	615.0	602.0	591.3	591.3
30°	1699.4	1282.2	863.9	757.3	698.0	641.1	593.7	564.1	549.9	534.5	533.3
32.5°	1766.9	1289.3	823.6	713.4	647.0	586.6	546.3	522.6	491.8	475.2	472.8
35°	1845.1	1298.8	781.0	663.6	596.1	541.6	517.9	478.8	449.1	434.9	433.7
37.5°	1928.1	1305.9	734.7	619.8	549.9	511.9	488.2	442.0	416.0	394.6	392.3
40°	2015.8	1305.9	687.3	577.1	513.1	498.9	453.9	412.4	368.6	357.9	355.5
42.5°	2113.0	1303.6	639.9	535.6	478.8	469.3	433.7	389.9	367.4	357.9	355.5
45°	2216.1	1295.3	594.9	488.2	443.2	424.3	397.0	385.1	375.7	375.7	375.7
47.5°	2333.4	1288.2	543.9	445.6	417.1	395.8	375.7	368.6	367.4	370.9	374.5
50°	2483.9	1285.8	501.3	414.8	397.0	372.1	369.7	363.8	365.0	365.0	365.0
52.5°	2666.4	1264.5	461.0	392.3	376.8	347.2	354.3	360.3	362.6	361.4	360.3
55°	2800.3	1226.5	426.6	376.8	362.6	337.7	347.2	356.7	359.1	355.5	355.5
57.5°	2921.2	1173.2	399.4	365.0	353.1	331.8	342.5	352.0	349.6	348.4	347.2
60°	3059.8	1122.2	378.0	359.1	343.7	329.4	338.9	344.9	341.3	338.9	337.7
62.5°	3210.3	1072.5	362.6	359.1	336.6	328.3	335.4	337.7	330.6	328.3	328.3
65°	3280.2	994.3	346.0	359.1	333.0	325.9	328.3	325.9	318.8	318.8	317.6
67.5°	3165.3	865.1	324.7	354.3	337.7	322.3	317.6	314.0	305.7	305.7	303.4
70°	2847.7	711.0	293.9	338.9	338.9	321.2	303.4	295.1	285.6	289.2	284.4
72.5°	2432.9	564.1	256.0	312.9	331.8	320.0	288.0	274.9	266.6	270.2	263.1
75°	1970.7	437.3	210.9	271.4	314.0	314.0	272.6	254.8	245.3	245.3	237.0
77.5°	1256.2	323.5	171.8	225.2	282.0	305.7	259.5	232.3	218.1	214.5	208.6
80°	622.2	227.5	141.0	178.9	240.6	286.8	250.0	206.2	186.1	178.9	168.3
82.5°	330.6	157.6	112.6	139.8	192.0	258.3	238.2	177.8	152.9	142.2	130.4
85°	148.1	97.2	90.1	106.7	145.8	212.1	214.5	145.8	117.3	139.8	103.1
87.5°	54.5	43.8	43.8	54.5	84.1	88.9	151.7	93.6	74.7	51.0	40.3
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)