

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: P381132

Luminaire Tested: **PRV-PA1A-750-U-T2U**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381132  
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-PA1A-750-U-T2U  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7597.1 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

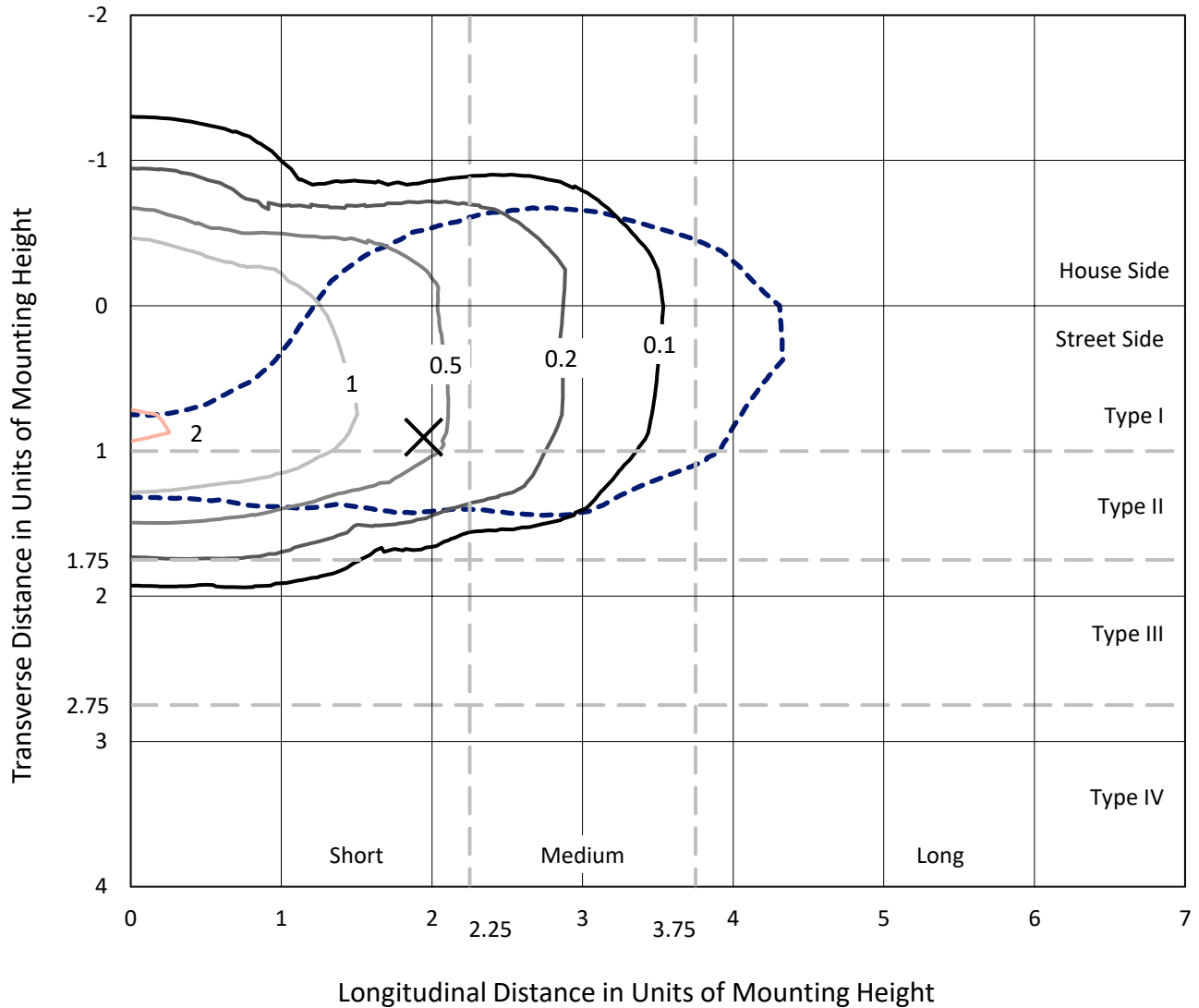
Input Watts (W): 54  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

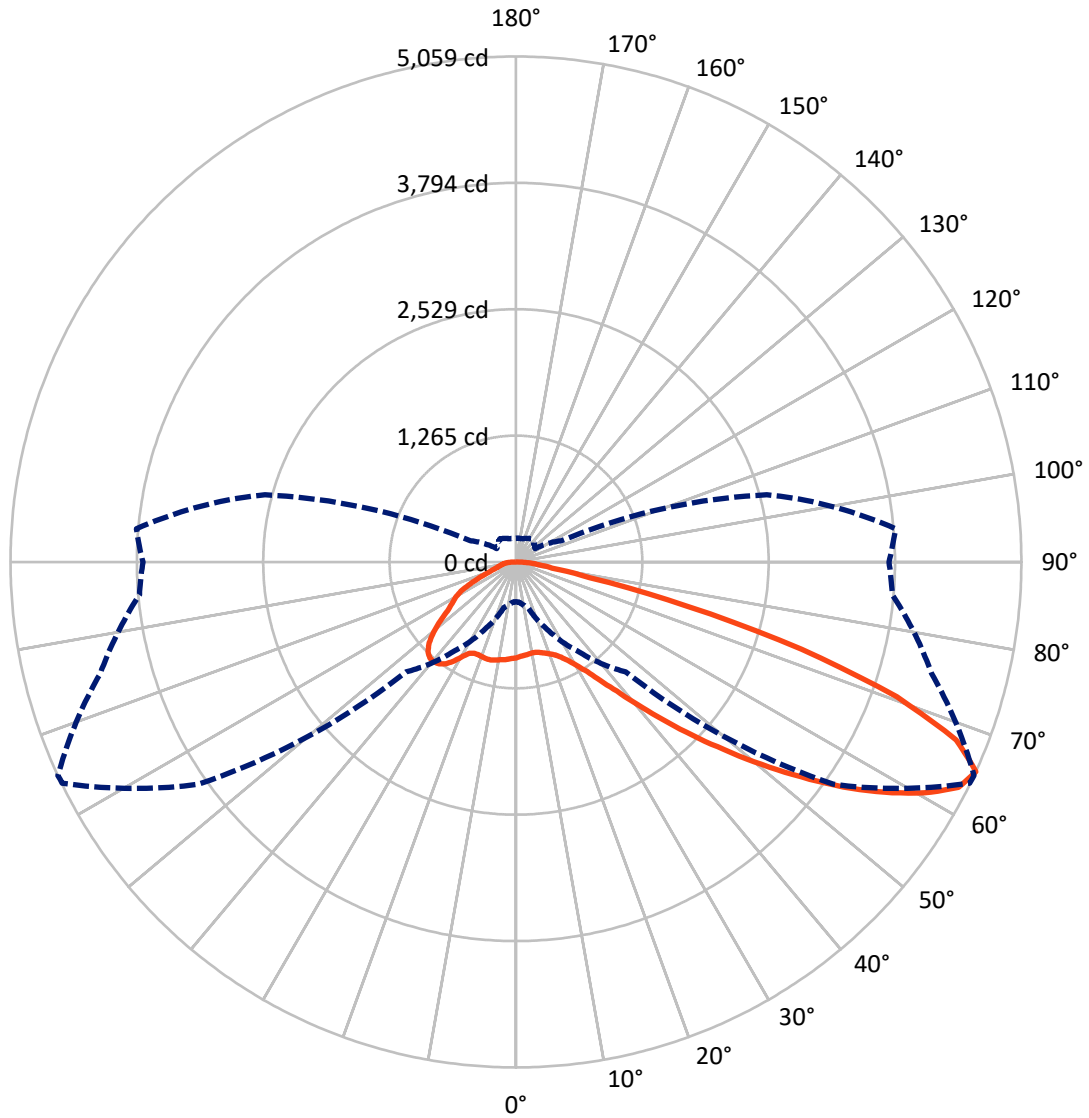
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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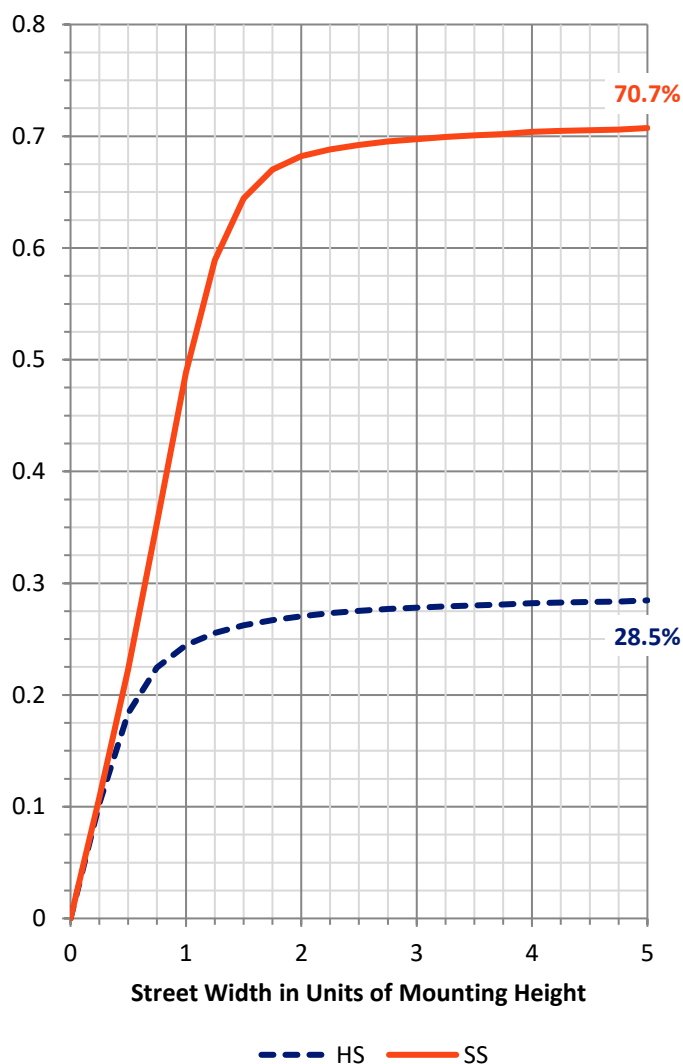
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2196.4	0.0	2196.4
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	5400.6	0.0	5400.6
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	7597.1	0.0	7597.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.5	1.2
10°-20°	273.1	3.6
20°-30°	485.0	6.4
30°-40°	820.5	10.8
40°-50°	1428.4	18.8
50°-60°	1845.9	24.3
60°-70°	1615.3	21.3
70°-80°	878.6	11.6
80°-90°	158.8	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°	7597.1	100.0
0°-180°	7597.1	100.0

**Coefficient of Utilization**



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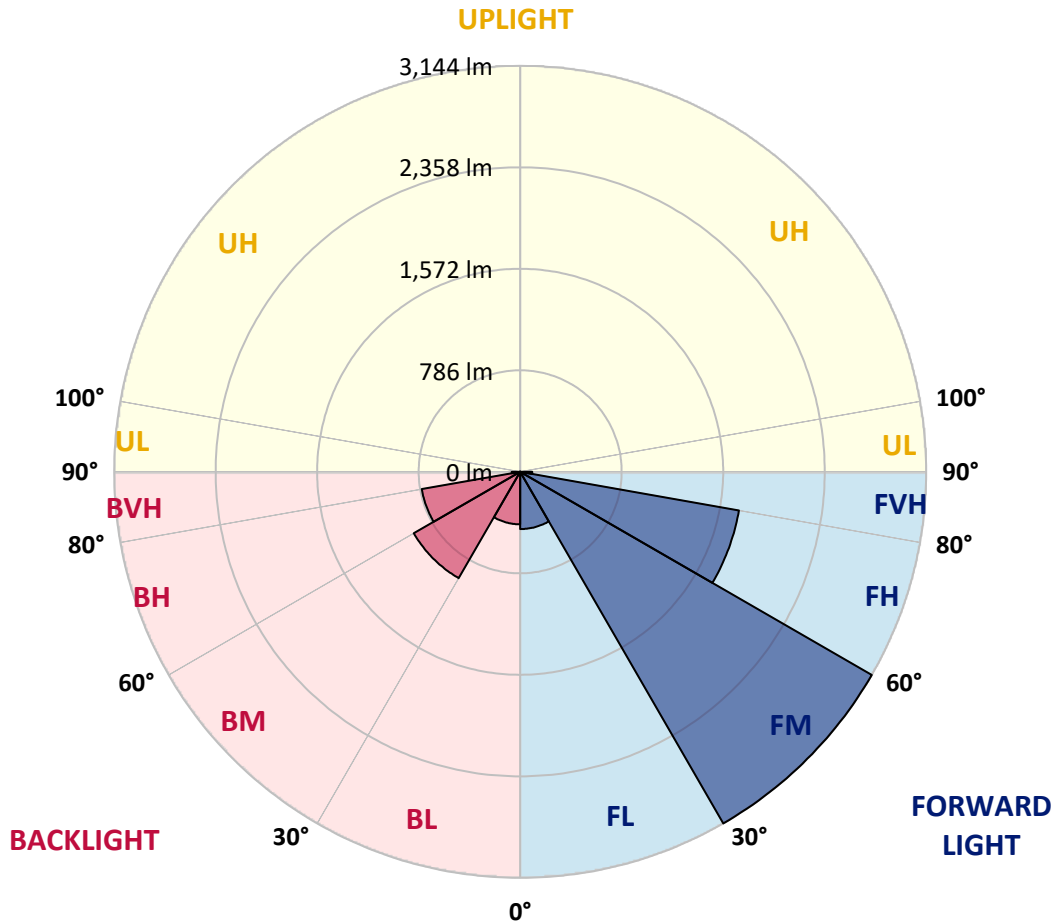
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.3	5.8			
FM (30°-60°)	3143.8	41.4			
FH (60°-80°)	1720.1	22.6			G1/1800
FVH (80°-90°)	93.4	1.2			G1/100
BL (0°-30°)	406.3	5.3	B1/500		
BM (30°-60°)	951.0	12.5	B1/1000		
BH (60°-80°)	773.8	10.2	B2/1000		G2/1000
BVH (80°-90°)	65.3	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0
2.5°	943.0	942.0	940.0	942.0	943.0	945.0	944.0	946.0	945.0	948.0	953.0
5°	919.0	917.0	916.0	921.0	924.0	929.0	931.0	938.0	937.0	942.0	950.0
7.5°	892.0	892.0	891.0	897.0	901.0	910.0	917.0	929.0	930.0	939.0	948.0
10°	871.0	872.0	871.0	876.0	882.0	893.0	905.0	922.0	923.0	936.0	945.0
12.5°	863.0	863.0	863.0	870.0	878.0	893.0	907.0	925.0	927.0	941.0	949.0
15°	874.0	875.0	873.0	880.0	889.0	907.0	920.0	939.0	941.0	954.0	959.0
17.5°	913.0	917.0	912.0	916.0	914.0	928.0	940.0	959.0	960.0	971.0	973.0
20°	990.0	994.0	986.0	981.0	963.0	962.0	967.0	982.0	982.0	989.0	984.0
22.5°	1108.9	1112.9	1098.9	1079.9	1037.0	1016.0	1005.0	1012.0	1011.0	1014.0	1001.0
25°	1266.9	1265.9	1248.9	1213.9	1144.9	1093.9	1066.9	1055.9	1055.9	1049.9	1034.0
27.5°	1462.9	1447.9	1417.9	1375.9	1279.9	1208.9	1150.9	1122.9	1117.9	1099.9	1069.9
30°	1671.9	1660.9	1617.9	1556.9	1445.9	1354.9	1258.9	1202.9	1199.9	1160.9	1115.9
32.5°	1917.9	1899.9	1851.9	1778.9	1645.9	1517.9	1397.9	1312.9	1307.9	1245.9	1183.9
35°	2233.9	2218.9	2125.9	2052.9	1881.9	1713.9	1571.9	1458.9	1454.9	1378.9	1299.9
37.5°	2612.9	2573.9	2483.9	2346.9	2166.9	1967.9	1787.9	1645.9	1640.9	1556.9	1456.9
40°	2950.9	2915.9	2835.9	2709.9	2516.9	2295.9	2051.9	1879.9	1874.9	1772.9	1646.9
42.5°	3200.8	3176.8	3124.9	3051.9	2913.9	2779.9	2388.9	2162.9	2153.9	2021.9	1864.9
45°	3345.8	3326.8	3296.8	3314.8	3312.8	3287.8	2790.9	2499.9	2470.9	2299.9	2107.9
47.5°	3310.8	3293.8	3305.8	3445.8	3638.8	3783.8	3258.8	2844.9	2805.9	2582.9	2366.9
50°	3057.9	3064.9	3127.9	3395.8	3828.8	4150.8	3777.8	3237.8	3185.8	2867.9	2612.9
52.5°	2596.9	2613.9	2766.9	3141.8	3807.8	4388.8	4246.8	3643.8	3574.8	3145.8	2836.9
55°	2062.9	2105.9	2303.9	2697.9	3533.8	4405.8	4600.8	4051.8	3975.8	3406.8	3031.9
57.5°	1525.9	1589.9	1818.9	2180.9	3008.9	4136.8	4777.8	4441.8	4349.8	3665.8	3237.8
60°	968.0	1007.0	1270.9	1697.9	2302.9	3478.8	4754.8	4773.8	4693.8	3923.8	3452.8
62.5°	618.0	637.0	770.0	1210.9	1609.9	2575.9	4503.8	5024.8	4970.8	4158.8	3656.8
65°	397.0	405.0	473.0	745.0	1095.9	1554.9	3878.8	5051.8	5058.8	4305.8	3782.8
67.5°	323.0	327.0	352.0	460.0	775.0	859.0	2701.9	4667.8	4752.8	4267.8	3739.8
70°	294.0	299.0	325.0	367.0	600.0	593.0	1307.9	3905.8	4044.8	4048.8	3548.8
72.5°	248.0	255.0	290.0	347.0	464.0	468.0	554.0	2781.9	2986.9	3618.8	3261.8
75°	207.0	211.0	241.0	306.0	393.0	374.0	389.0	1474.9	1770.9	2901.9	2956.9
77.5°	168.0	172.0	194.0	244.0	349.0	291.0	306.0	611.0	755.0	1969.9	2416.9
80°	120.0	124.0	149.0	190.0	264.0	262.0	227.0	337.0	366.0	1064.9	1569.9
82.5°	86.0	89.0	113.0	136.0	183.0	263.0	171.0	229.0	240.0	472.0	633.0
85°	58.0	58.0	78.0	90.0	118.0	166.0	138.0	155.0	162.0	224.0	171.0
87.5°	25.0	25.0	42.0	46.0	62.0	77.0	103.0	78.0	80.0	121.0	70.0
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°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0
2.5°	956.0	957.0	959.0	965.0	969.0	975.0	978.0	982.0	982.0	980.0	981.0
5°	954.0	957.0	964.0	975.0	982.0	993.0	1001.0	1007.0	1009.0	1007.0	1008.0
7.5°	953.0	958.0	970.0	986.0	996.0	1010.0	1021.0	1028.0	1033.0	1031.0	1032.0
10°	950.0	958.0	973.0	993.0	1008.0	1022.0	1032.0	1035.0	1038.0	1036.0	1035.0
12.5°	954.0	963.0	979.0	1003.0	1020.0	1031.0	1034.0	1029.0	1022.0	1018.0	1017.0
15°	962.0	971.0	987.0	1012.0	1027.0	1031.0	1024.0	1008.0	992.0	983.0	982.0
17.5°	973.0	979.0	992.0	1014.0	1026.0	1021.0	1007.0	988.0	976.0	969.0	970.0
20°	980.0	980.0	990.0	1007.0	1017.0	1013.0	996.0	975.0	956.0	947.0	944.0
22.5°	990.0	985.0	986.0	1001.0	1015.0	1009.0	973.0	936.0	909.0	899.0	898.0
25°	1017.0	1003.0	994.0	1003.0	1036.0	987.0	915.0	872.0	847.0	838.0	839.0
27.5°	1049.9	1031.0	1012.0	1027.0	1052.9	937.0	841.0	792.0	777.0	770.0	773.0
30°	1082.9	1057.9	1033.0	1086.9	1041.0	859.0	746.0	698.0	685.0	680.0	684.0
32.5°	1143.9	1102.9	1072.9	1166.9	1004.0	770.0	643.0	599.0	587.0	581.0	579.0
35°	1245.9	1193.9	1163.9	1236.9	952.0	671.0	549.0	518.0	505.0	492.0	490.0
37.5°	1392.9	1329.9	1302.9	1276.9	879.0	573.0	477.0	456.0	437.0	417.0	416.0
40°	1568.9	1486.9	1466.9	1294.9	778.0	481.0	427.0	407.0	383.0	364.0	365.0
42.5°	1771.9	1666.9	1623.9	1289.9	653.0	432.0	391.0	369.0	348.0	331.0	330.0
45°	1988.9	1869.9	1770.9	1254.9	529.0	398.0	369.0	343.0	322.0	303.0	301.0
47.5°	2228.9	2095.9	1906.9	1186.9	437.0	374.0	356.0	319.0	300.0	288.0	288.0
50°	2470.9	2311.9	2031.9	1083.9	383.0	356.0	337.0	306.0	291.0	281.0	281.0
52.5°	2677.9	2536.9	2134.9	961.0	349.0	341.0	324.0	300.0	284.0	275.0	274.0
55°	2878.9	2745.9	2226.9	839.0	321.0	321.0	321.0	295.0	277.0	269.0	268.0
57.5°	3078.9	2965.9	2322.9	759.0	296.0	304.0	315.0	289.0	271.0	264.0	263.0
60°	3304.8	3229.8	2433.9	703.0	274.0	286.0	307.0	282.0	261.0	255.0	254.0
62.5°	3544.8	3544.8	2534.9	624.0	254.0	271.0	295.0	273.0	252.0	247.0	246.0
65°	3732.8	3813.8	2599.9	506.0	234.0	256.0	281.0	261.0	240.0	239.0	237.0
67.5°	3754.8	3881.8	2558.9	382.0	216.0	240.0	267.0	248.0	228.0	228.0	225.0
70°	3596.8	3725.8	2430.9	286.0	203.0	224.0	249.0	232.0	213.0	215.0	210.0
72.5°	3332.8	3364.8	2112.9	226.0	188.0	207.0	227.0	214.0	197.0	197.0	190.0
75°	2984.9	2806.9	1534.9	189.0	170.0	187.0	205.0	194.0	179.0	174.0	170.0
77.5°	2375.9	2033.9	892.0	163.0	155.0	168.0	180.0	172.0	159.0	148.0	148.0
80°	1447.9	1191.9	394.0	141.0	137.0	147.0	155.0	146.0	135.0	124.0	121.0
82.5°	551.0	460.0	191.0	121.0	120.0	126.0	132.0	123.0	115.0	110.0	95.0
85°	151.0	139.0	131.0	101.0	99.0	98.0	105.0	101.0	90.0	74.0	66.0
87.5°	57.0	65.0	71.0	62.0	66.0	61.0	70.0	64.0	57.0	37.0	33.0
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)