

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: P380996

Luminaire Tested: **PRV-PA1A-740-U-T4W**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P380996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1A-740-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7484 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

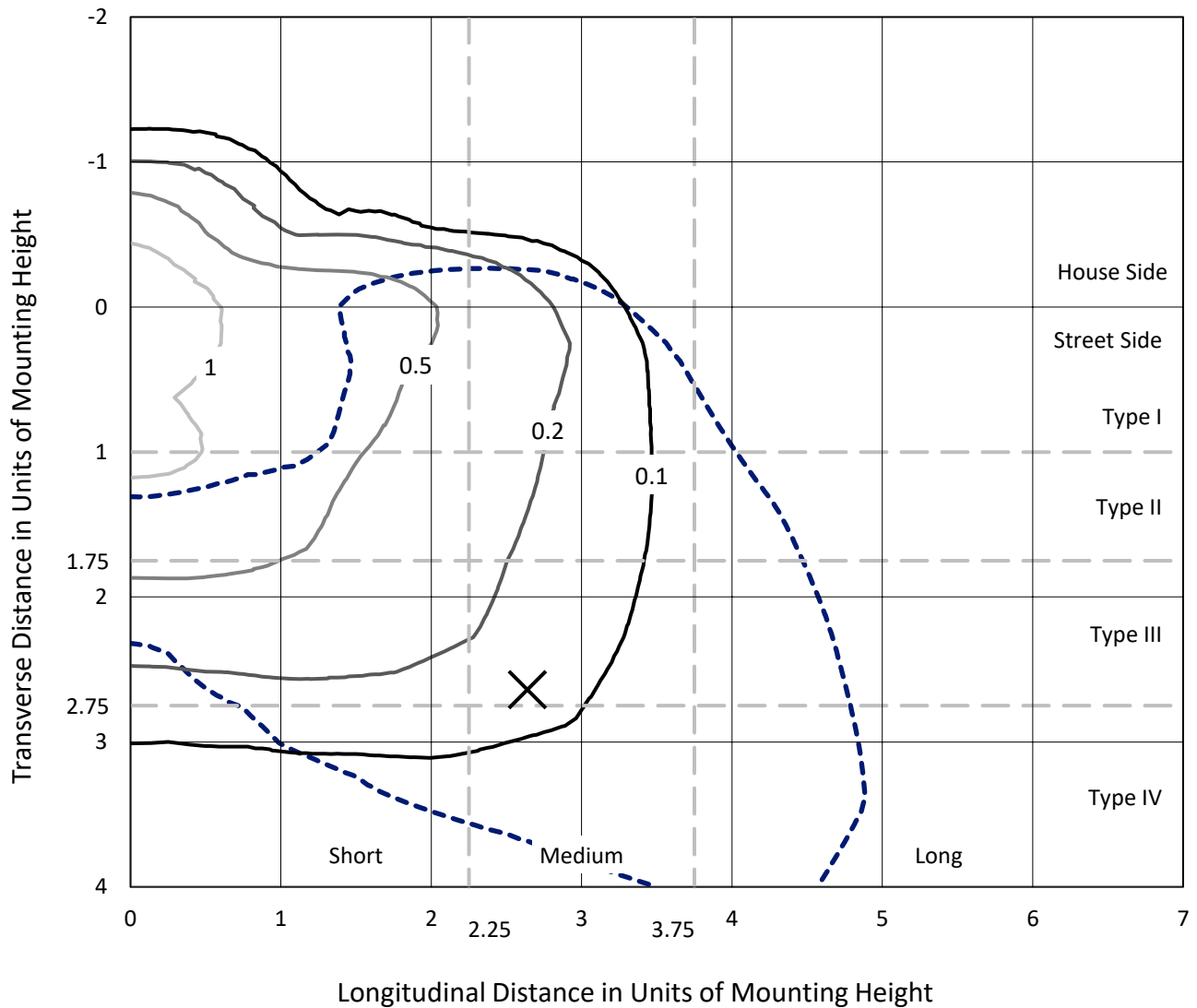
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

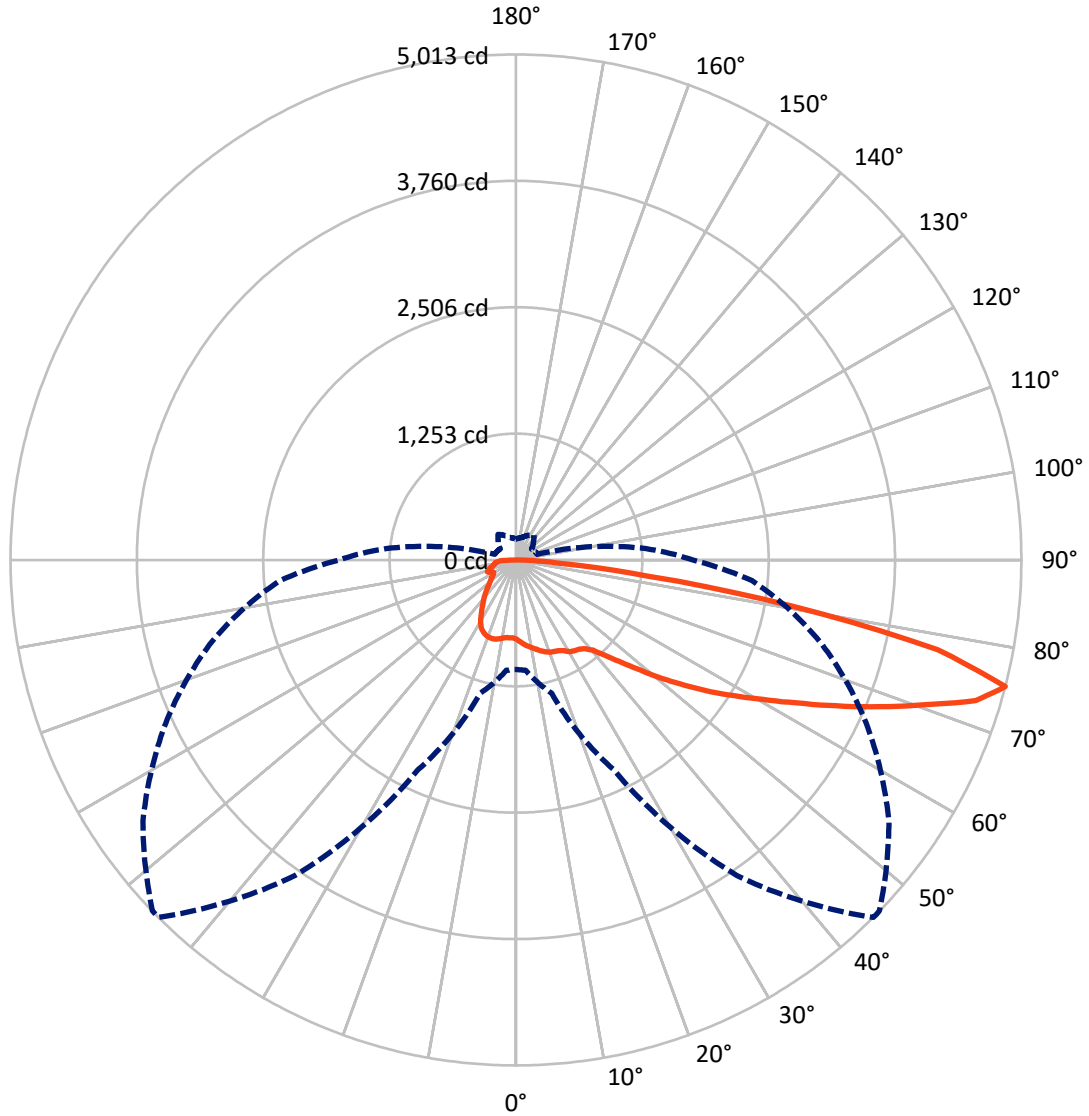
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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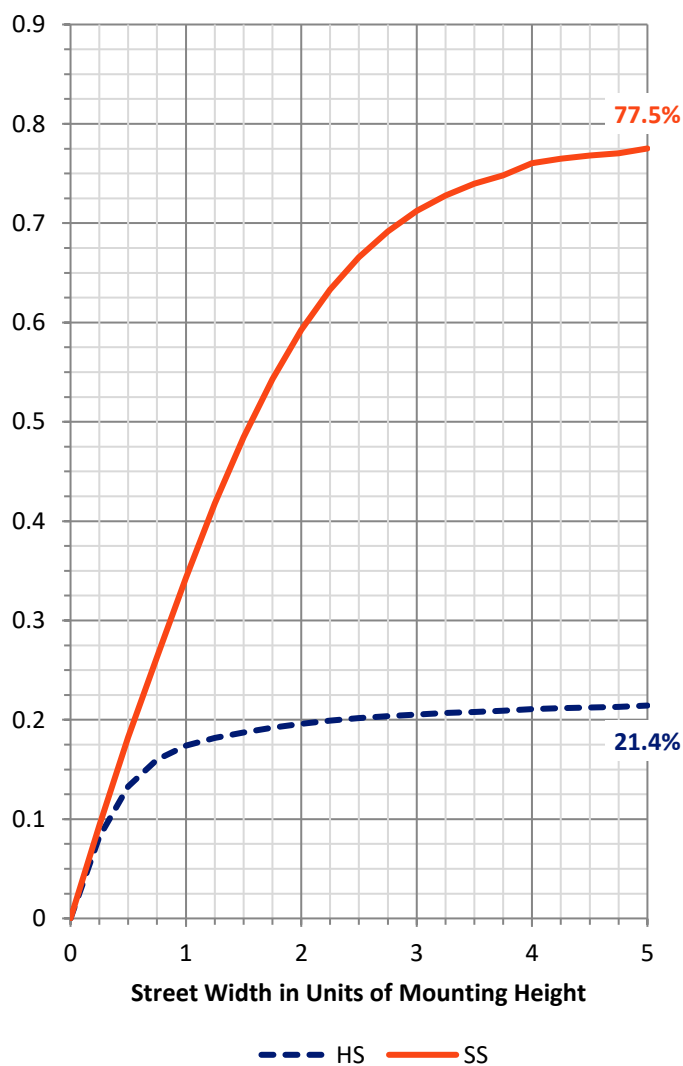
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1654.0	0.0	1654.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	5830.1	0.0	5830.1
	% Fixture	77.9	0.0	77.9
Total	Lumens	7484.0	0.0	7484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	1.0
10°-20°	247.4	3.3
20°-30°	421.7	5.6
30°-40°	590.9	7.9
40°-50°	868.1	11.6
50°-60°	1381.6	18.5
60°-70°	1965.3	26.3
70°-80°	1645.6	22.0
80°-90°	285.6	3.8
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°	7484.0	100.0
0°-180°	7484.0	100.0

Coefficient of Utilization

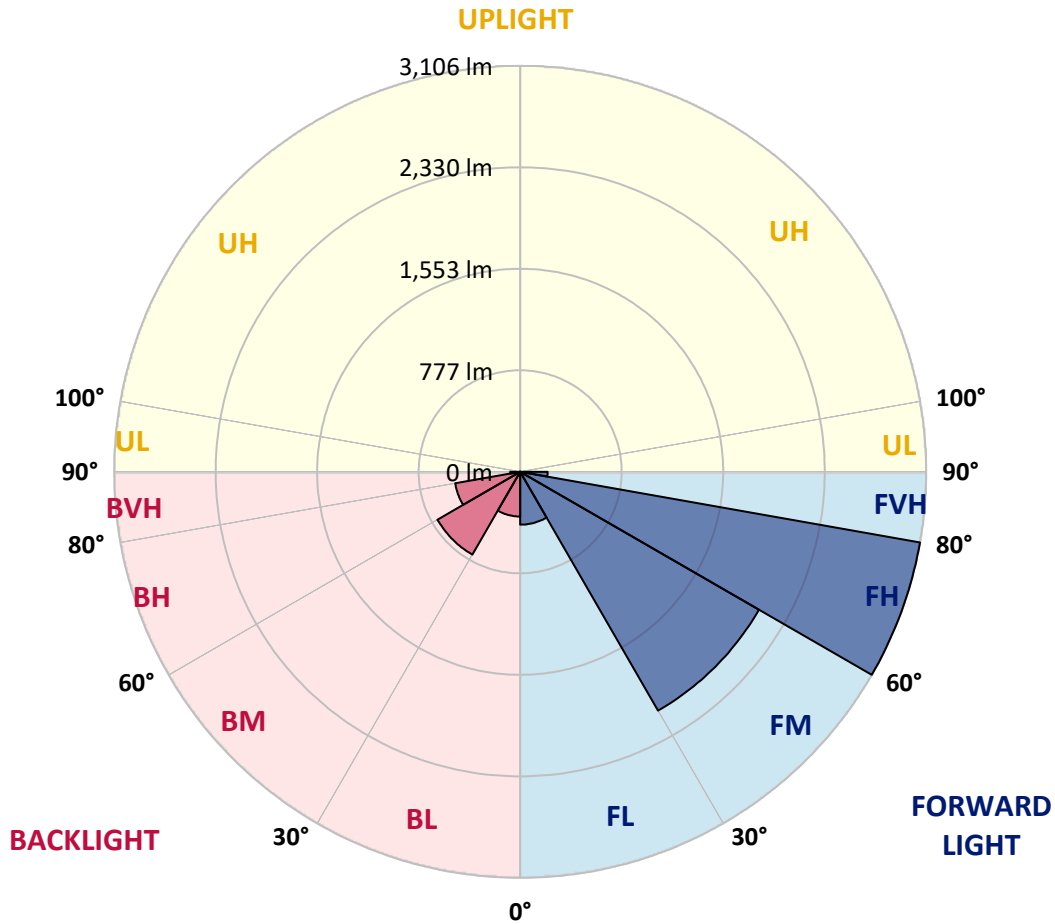


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	404.6	5.4			
FM (30°-60°)	2109.5	28.2			
FH (60°-80°)	3106.0	41.5			G2/5000
FVH (80°-90°)	210.0	2.8			G2/225
BL (0°-30°)	342.3	4.6	B1/500		
BM (30°-60°)	731.1	9.8	B1/1000		
BH (60°-80°)	504.9	6.7	B2/1000		G2/1000
BVH (80°-90°)	75.6	1.0			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	786.0	786.0	786.0	786.0	786.0	786.0	786.0	786.0	786.0	786.0	786.0
2.5°	831.0	827.0	825.0	825.0	817.0	812.0	811.0	804.0	798.0	792.0	787.0
5°	879.0	876.0	870.0	865.0	854.0	840.0	838.0	823.0	808.0	794.0	782.0
7.5°	923.0	917.0	910.0	900.0	882.0	863.0	860.0	839.0	818.0	797.0	781.0
10°	960.0	954.0	944.0	930.0	907.0	884.0	881.0	859.0	837.0	812.0	789.0
12.5°	995.0	990.0	975.0	956.0	929.0	908.0	905.0	886.0	863.0	835.0	805.0
15°	1025.0	1020.0	1004.0	982.0	951.0	935.0	931.0	913.0	890.0	860.0	829.0
17.5°	1040.0	1040.0	1023.0	999.0	970.0	958.0	955.0	933.0	912.0	883.0	852.0
20°	1045.0	1047.0	1035.0	1006.0	981.0	976.0	973.0	955.0	931.0	903.0	874.0
22.5°	1048.0	1052.0	1042.0	1009.0	988.0	985.0	983.0	971.0	952.0	925.0	896.0
25°	1058.0	1058.0	1051.0	1014.0	997.0	996.0	996.0	989.0	976.0	953.0	924.0
27.5°	1073.0	1072.0	1063.0	1025.0	1017.0	1020.0	1019.0	1018.0	1009.0	986.0	955.0
30°	1098.0	1098.0	1088.0	1047.0	1042.0	1055.0	1056.0	1058.0	1044.0	1008.0	983.0
32.5°	1136.0	1132.0	1122.0	1069.0	1061.0	1073.0	1075.0	1074.0	1062.0	1028.0	1016.0
35°	1253.0	1244.0	1208.0	1118.0	1078.0	1085.0	1086.0	1091.0	1093.0	1066.0	1060.0
37.5°	1458.0	1446.0	1391.0	1234.0	1132.0	1115.0	1114.0	1127.0	1138.0	1114.0	1114.0
40°	1681.0	1671.0	1639.0	1434.0	1232.0	1176.0	1172.0	1184.0	1198.0	1181.0	1186.0
42.5°	1873.0	1881.0	1884.0	1646.0	1382.0	1290.0	1279.0	1262.0	1284.0	1269.0	1289.0
45°	2017.0	2013.0	2068.0	1863.0	1576.0	1433.0	1418.0	1372.0	1400.0	1399.0	1443.0
47.5°	2170.0	2163.0	2186.0	2067.0	1797.0	1608.0	1585.0	1517.0	1559.0	1588.0	1661.0
50°	2315.0	2317.0	2325.0	2228.0	2037.0	1821.0	1792.0	1701.0	1761.0	1822.0	1925.0
52.5°	2503.9	2489.9	2479.9	2416.0	2306.0	2043.0	2024.0	1920.0	2004.0	2076.0	2213.0
55°	2668.9	2659.9	2653.9	2650.9	2530.9	2288.0	2268.0	2160.0	2281.0	2332.0	2533.9
57.5°	2844.9	2839.9	2871.9	2922.9	2874.9	2536.9	2515.9	2412.0	2546.9	2582.9	2881.9
60°	2973.9	2976.9	3064.9	3194.9	3161.9	2806.9	2781.9	2689.9	2805.9	2837.9	3229.9
62.5°	2974.9	3004.9	3208.9	3441.9	3479.9	3117.9	3088.9	2988.9	3071.9	3071.9	3541.9
65°	2690.9	2724.9	3182.9	3502.9	3801.9	3487.9	3459.9	3302.9	3333.9	3291.9	3834.9
67.5°	2408.0	2447.9	2878.9	3507.9	4027.9	3883.9	3850.9	3616.9	3563.9	3457.9	4039.9
70°	2220.0	2248.0	2607.9	3442.9	4163.9	4297.9	4272.9	3914.9	3744.9	3596.9	3996.9
72.5°	1869.0	1859.0	2203.0	3133.9	4239.9	4767.9	4746.9	4238.9	3901.9	3530.9	3408.9
75°	1085.0	1097.0	1367.0	2296.0	3821.9	5012.9	5010.9	4515.9	3832.9	3118.9	2349.0
77.5°	313.0	322.0	449.0	1009.0	2417.0	4275.9	4412.9	4129.9	3239.9	2223.0	1218.0
80°	137.0	144.0	195.0	336.0	1041.0	2792.9	2912.9	2792.9	1954.0	1020.0	478.0
82.5°	81.0	86.0	127.0	208.0	499.0	1329.0	1491.0	1302.0	843.0	433.0	198.0
85°	46.0	48.0	73.0	132.0	314.0	465.0	522.0	489.0	411.0	246.0	104.0
87.5°	21.0	22.0	36.0	62.0	176.0	157.0	163.0	216.0	238.0	150.0	52.0
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°	786.0	786.0	786.0	786.0	786.0	786.0	786.0	786.0	786.0	786.0	786.0
2.5°	785.0	782.0	776.0	774.0	771.0	772.0	773.0	773.0	774.0	771.0	771.0
5°	777.0	772.0	766.0	766.0	766.0	774.0	781.0	785.0	787.0	787.0	785.0
7.5°	774.0	768.0	761.0	763.0	765.0	775.0	788.0	801.0	805.0	805.0	803.0
10°	780.0	774.0	769.0	772.0	777.0	785.0	795.0	807.0	817.0	818.0	817.0
12.5°	794.0	787.0	782.0	788.0	794.0	799.0	804.0	809.0	822.0	824.0	824.0
15°	817.0	810.0	804.0	809.0	811.0	811.0	811.0	811.0	824.0	826.0	826.0
17.5°	840.0	834.0	828.0	829.0	823.0	815.0	812.0	811.0	818.0	824.0	825.0
20°	862.0	857.0	851.0	841.0	826.0	811.0	806.0	806.0	810.0	819.0	819.0
22.5°	886.0	880.0	870.0	847.0	822.0	801.0	796.0	799.0	804.0	816.0	815.0
25°	913.0	905.0	888.0	845.0	809.0	784.0	785.0	794.0	803.0	816.0	816.0
27.5°	943.0	932.0	898.0	829.0	780.0	756.0	765.0	786.0	799.0	813.0	815.0
30°	976.0	966.0	906.0	801.0	733.0	711.0	733.0	767.0	787.0	800.0	803.0
32.5°	1016.0	1008.0	913.0	765.0	672.0	653.0	685.0	727.0	759.0	774.0	777.0
35°	1066.0	1058.0	922.0	724.0	615.0	595.0	624.0	667.0	709.0	728.0	734.0
37.5°	1131.0	1119.0	930.0	680.0	567.0	544.0	558.0	597.0	635.0	661.0	668.0
40°	1214.0	1195.0	937.0	630.0	525.0	499.0	504.0	523.0	545.0	568.0	577.0
42.5°	1331.0	1293.0	938.0	577.0	482.0	458.0	456.0	462.0	462.0	462.0	465.0
45°	1494.0	1422.0	940.0	527.0	438.0	413.0	407.0	405.0	390.0	361.0	359.0
47.5°	1700.0	1591.0	949.0	485.0	392.0	370.0	362.0	354.0	326.0	296.0	290.0
50°	1964.0	1787.0	967.0	445.0	353.0	338.0	328.0	309.0	278.0	255.0	249.0
52.5°	2268.0	2020.0	984.0	403.0	324.0	314.0	302.0	279.0	246.0	232.0	230.0
55°	2616.9	2280.0	1018.0	366.0	299.0	292.0	281.0	259.0	234.0	224.0	223.0
57.5°	2973.9	2570.9	1066.0	333.0	275.0	271.0	271.0	252.0	236.0	232.0	232.0
60°	3317.9	2820.9	1029.0	302.0	253.0	255.0	274.0	269.0	257.0	262.0	265.0
62.5°	3584.9	2967.9	835.0	277.0	237.0	255.0	304.0	304.0	290.0	288.0	288.0
65°	3698.9	2965.9	587.0	258.0	231.0	280.0	339.0	323.0	286.0	272.0	269.0
67.5°	3669.9	2835.9	405.0	245.0	229.0	306.0	355.0	310.0	268.0	256.0	247.0
70°	3414.9	2560.9	312.0	233.0	226.0	295.0	350.0	295.0	254.0	243.0	235.0
72.5°	2754.9	2054.0	259.0	221.0	214.0	273.0	333.0	281.0	243.0	231.0	223.0
75°	1757.0	1292.0	219.0	205.0	191.0	245.0	310.0	267.0	231.0	215.0	209.0
77.5°	845.0	557.0	191.0	186.0	172.0	227.0	287.0	249.0	215.0	202.0	198.0
80°	342.0	255.0	166.0	167.0	158.0	216.0	271.0	232.0	199.0	185.0	178.0
82.5°	178.0	148.0	140.0	144.0	144.0	206.0	259.0	218.0	185.0	179.0	156.0
85°	96.0	92.0	108.0	116.0	125.0	186.0	241.0	203.0	169.0	145.0	140.0
87.5°	47.0	60.0	61.0	70.0	87.0	149.0	203.0	170.0	141.0	117.0	115.0
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)