

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: P381316

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

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381316  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)  
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-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

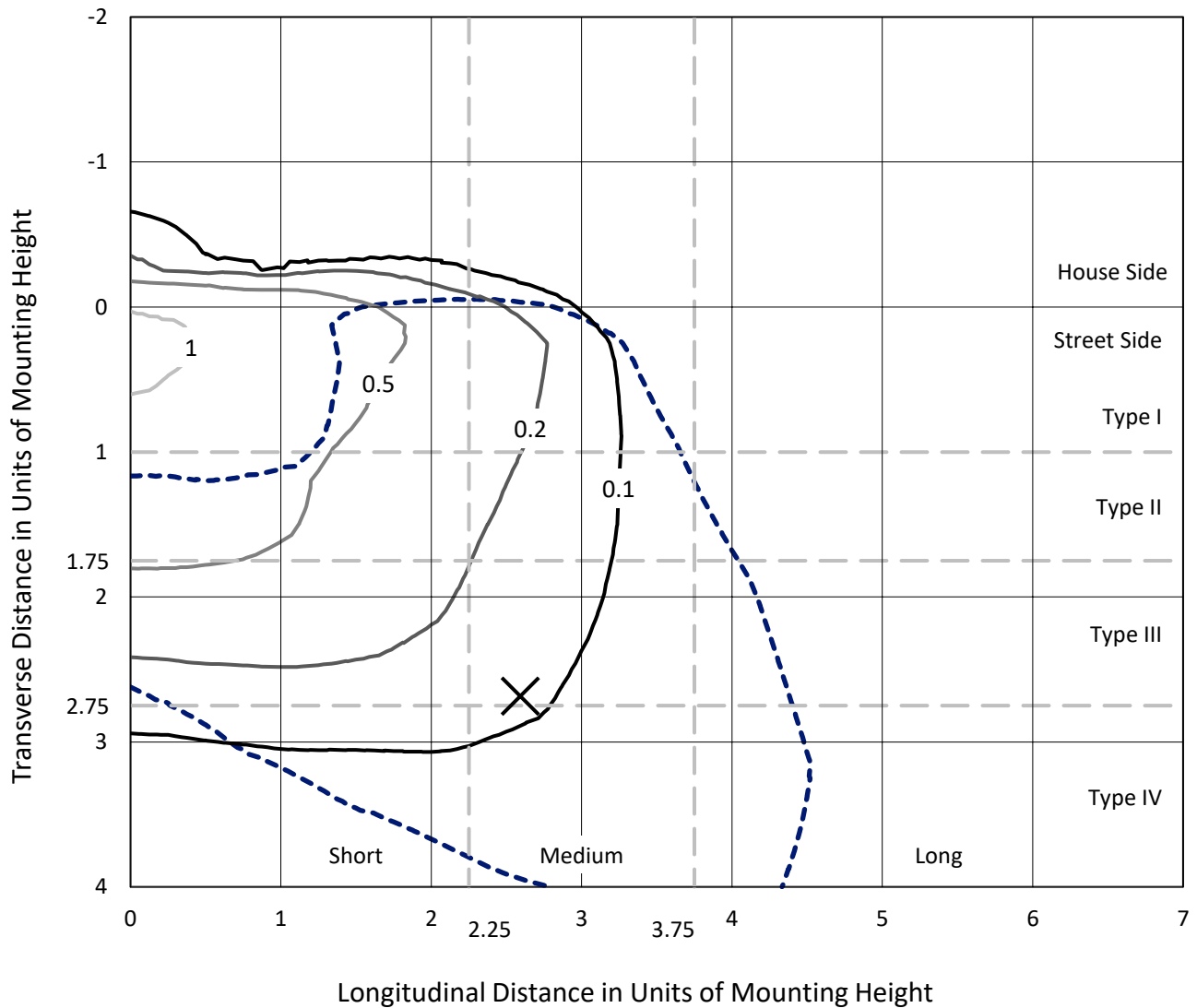
Lumens per Lamp: N/A  
Luminaire Lumens: 5420 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P381316  
 CATALOG NUMBER: PRV-PA1A-740-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

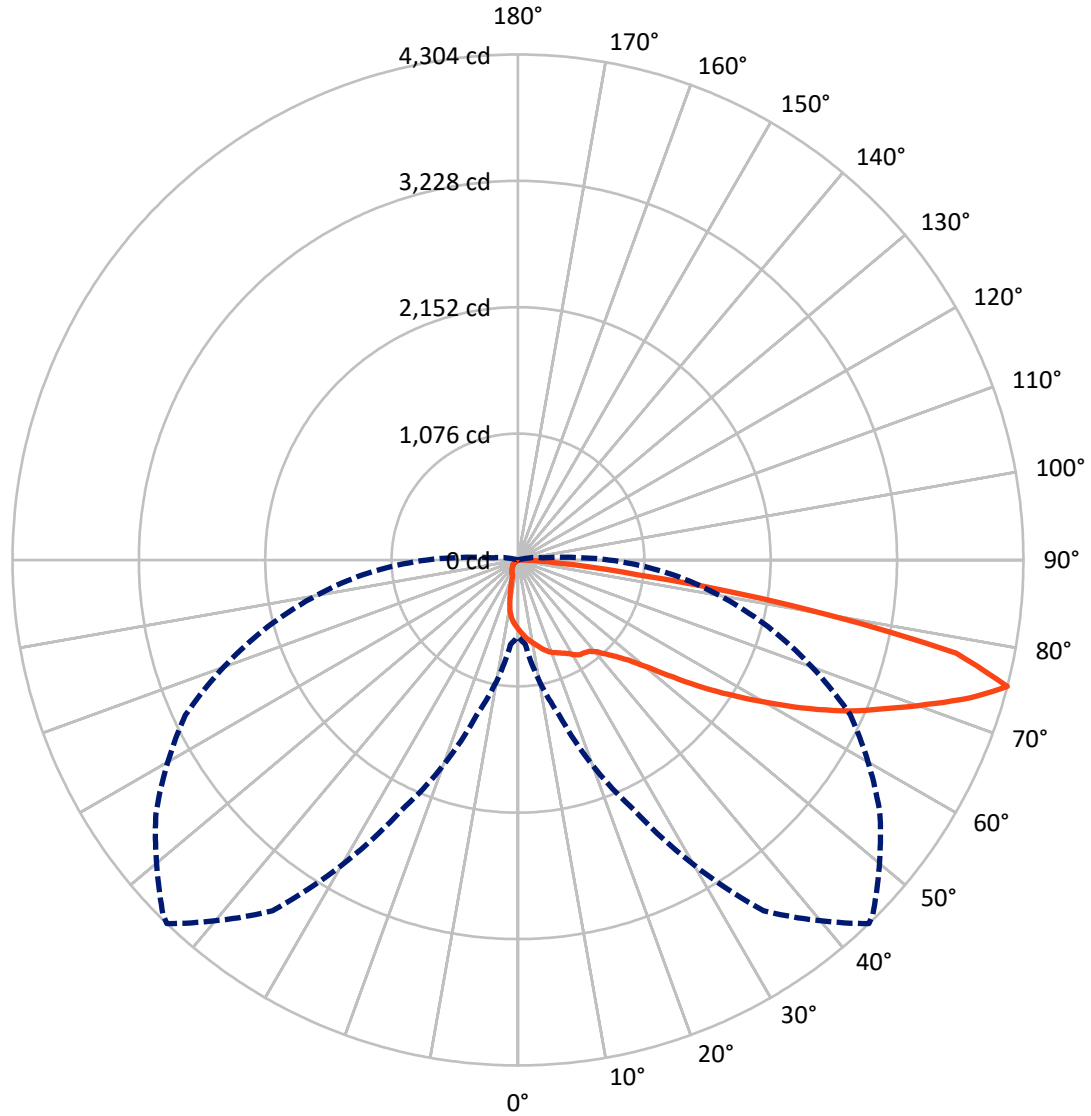
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P381316  
CATALOG NUMBER: PRV-PA1A-740-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P381316  
 CATALOG NUMBER: PRV-PA1A-740-U-T4W-HSS

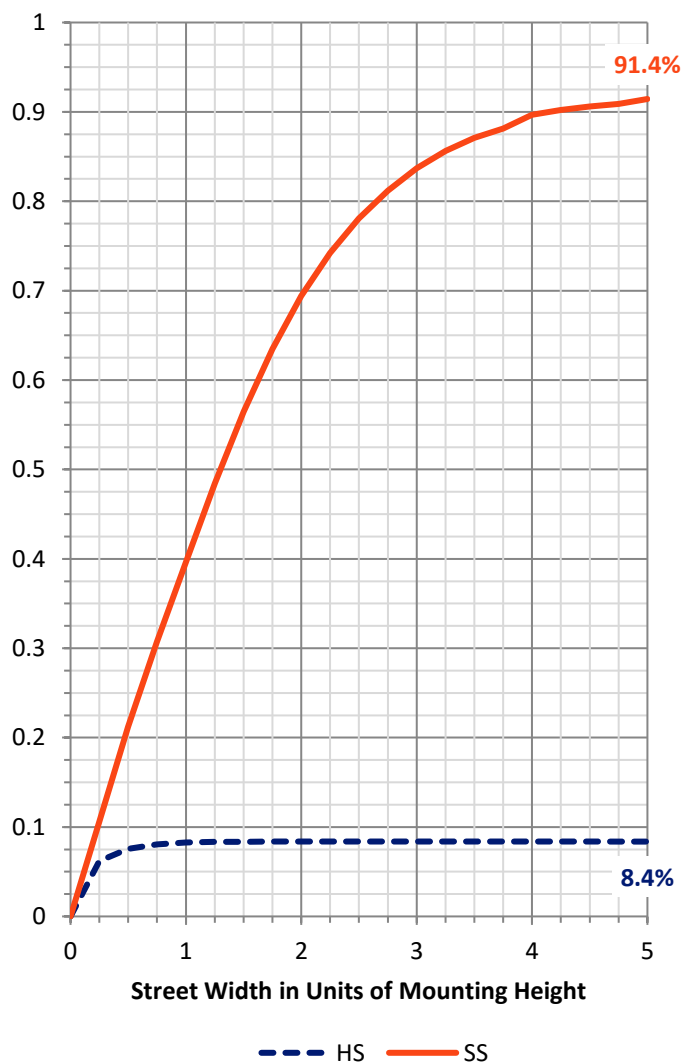
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	457.1	0.0	457.1
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	4962.9	0.0	4962.9
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	5420.0	0.0	5420.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.6	1.0
10°-20°	155.9	2.9
20°-30°	257.3	4.7
30°-40°	373.4	6.9
40°-50°	607.0	11.2
50°-60°	1070.1	19.7
60°-70°	1537.9	28.4
70°-80°	1231.5	22.7
80°-90°	131.2	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°	5420.0	100.0
0°-180°	5420.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P381316

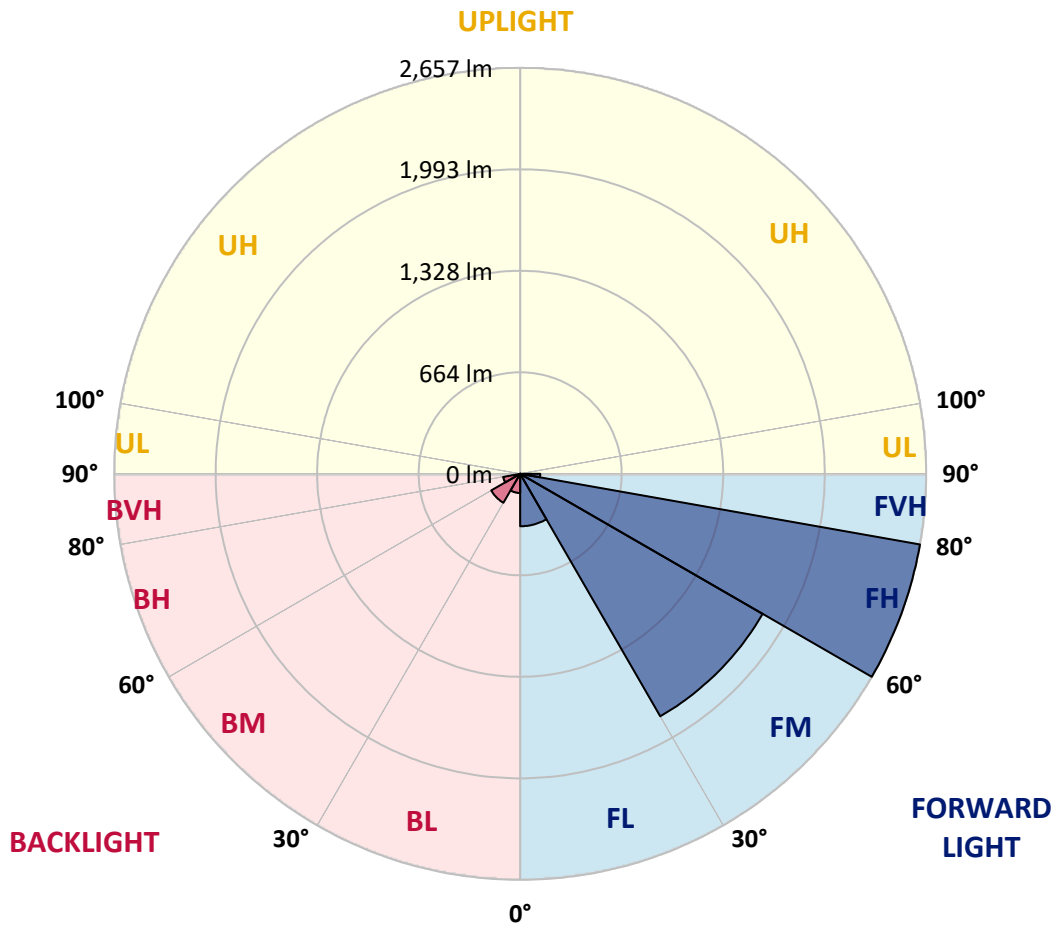
CATALOG NUMBER: PRV-PA1A-740-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.2	6.3			
FM (30°-60°)	1832.0	33.8			
FH (60°-80°)	2656.8	49.0			G2/5000
FVH (80°-90°)	130.9	2.4			G2/225
BL (0°-30°)	125.6	2.3	B1/500		
BM (30°-60°)	218.5	4.0	B0/220		
BH (60°-80°)	112.7	2.1	B1/500		G1/500
BVH (80°-90°)	0.3	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 IV Medium





REPORT NUMBER: P381316

CATALOG NUMBER: PRV-PA1A-740-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9
2.5°	642.9	641.9	638.9	633.9	628.9	623.9	622.9	614.9	605.9	598.9	592.9
5°	699.9	698.9	693.9	682.9	671.9	658.9	657.9	638.9	621.9	602.9	586.9
7.5°	758.9	756.9	747.9	730.9	711.9	691.9	689.9	661.9	636.9	611.9	588.9
10°	804.9	802.9	789.9	769.9	743.9	718.9	715.9	686.9	661.9	629.9	598.9
12.5°	849.9	845.9	828.9	806.9	774.9	750.9	747.9	717.9	687.9	654.9	616.9
15°	891.9	886.9	870.9	842.9	808.9	785.9	783.9	751.9	720.9	682.9	640.9
17.5°	920.9	918.9	899.9	868.9	835.9	816.9	814.9	781.9	750.9	710.9	665.9
20°	935.9	935.9	917.9	883.9	853.9	840.9	837.9	806.9	776.9	738.9	691.9
22.5°	938.9	941.9	927.9	890.9	868.9	857.9	855.9	828.9	799.9	764.9	720.9
25°	944.9	944.9	937.9	897.9	881.9	878.9	877.9	853.9	827.9	792.9	749.9
27.5°	951.9	951.9	946.9	907.9	901.9	900.9	899.9	888.9	867.9	826.9	783.9
30°	969.9	970.9	966.9	927.9	923.9	934.9	936.9	930.9	904.9	853.9	818.9
32.5°	1014.9	1005.9	994.9	941.9	948.9	962.9	963.9	951.9	923.9	882.9	860.9
35°	1127.9	1074.9	1024.9	953.9	956.9	970.9	972.9	971.9	954.9	919.9	908.9
37.5°	1232.9	1157.9	1086.9	981.9	971.9	986.9	990.9	1007.9	994.9	970.9	973.9
40°	1293.9	1264.9	1214.9	1058.9	1001.9	1024.9	1028.9	1054.9	1049.9	1039.9	1058.9
42.5°	1481.9	1483.9	1429.9	1173.9	1056.9	1093.9	1098.9	1119.9	1126.9	1131.9	1177.9
45°	1699.8	1706.8	1693.8	1380.9	1160.9	1172.9	1179.9	1207.9	1233.9	1265.9	1349.9
47.5°	1961.8	1955.8	1907.8	1633.9	1341.9	1274.9	1279.9	1333.9	1378.9	1448.9	1568.9
50°	2193.8	2208.8	2117.8	1869.8	1596.9	1435.9	1430.9	1483.9	1564.9	1662.8	1813.8
52.5°	2427.8	2405.8	2282.8	2103.8	1898.8	1654.8	1639.9	1668.8	1782.8	1898.8	2053.8
55°	2489.8	2491.8	2449.8	2359.8	2150.8	1920.8	1895.8	1893.8	2035.8	2114.8	2305.8
57.5°	2611.8	2616.8	2626.8	2644.8	2545.8	2186.8	2160.8	2132.8	2270.8	2316.8	2558.8
60°	2735.8	2741.8	2802.7	2899.7	2833.7	2473.8	2445.8	2379.8	2456.8	2518.8	2824.7
62.5°	2719.8	2761.7	2938.7	3131.7	3123.7	2788.7	2753.8	2594.8	2643.8	2697.8	3068.7
65°	2455.8	2500.8	2898.7	3195.7	3414.7	3099.7	3042.7	2816.7	2819.7	2884.7	3303.7
67.5°	2219.8	2268.8	2648.8	3168.7	3606.7	3378.7	3319.7	3039.7	2992.7	3100.7	3429.7
70°	2083.8	2132.8	2449.8	3084.7	3660.7	3687.7	3636.7	3294.7	3198.7	3297.7	3288.7
72.5°	1630.9	1707.8	2195.8	2924.7	3718.7	4018.6	3978.6	3617.7	3373.7	3091.7	2503.8
75°	649.9	720.9	1370.9	2353.8	3645.7	4303.6	4272.6	3762.7	3122.7	2207.8	1281.9
77.5°	196.0	210.0	381.0	1163.9	2672.8	3815.7	3805.7	3163.7	2209.8	1024.9	350.0
80°	65.0	72.0	117.0	321.0	1219.9	2383.8	2428.8	2015.8	1003.9	235.0	71.0
82.5°	27.0	30.0	59.0	129.0	432.0	1026.9	1011.9	902.9	350.0	146.0	26.0
85°	7.0	9.0	27.0	74.0	158.0	354.0	372.0	303.0	198.0	121.0	8.0
87.5°	0.0	0.0	13.0	30.0	71.0	107.0	112.0	92.0	112.0	91.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P381316  
 CATALOG NUMBER: PRV-PA1A-740-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9
2.5°	587.9	582.9	573.9	567.9	559.9	557.9	553.9	549.0	548.0	543.0	544.0
5°	577.9	569.9	553.9	543.0	530.0	526.0	519.0	514.0	510.0	503.0	504.0
7.5°	575.9	563.9	542.0	521.0	500.0	485.0	464.0	447.0	433.0	418.0	421.0
10°	582.9	567.9	537.0	508.0	470.0	422.0	367.0	331.0	313.0	295.0	297.0
12.5°	596.9	578.9	539.0	495.0	418.0	336.0	260.0	211.0	198.0	190.0	191.0
15°	617.9	595.9	545.0	470.0	348.0	243.0	173.0	152.0	157.0	160.0	160.0
17.5°	639.9	614.9	550.0	425.0	269.0	170.0	141.0	139.0	146.0	153.0	153.0
20°	666.9	634.9	550.9	368.0	194.0	138.0	133.0	133.0	138.0	146.0	146.0
22.5°	692.9	656.9	542.0	303.0	148.0	128.0	128.0	128.0	131.0	139.0	140.0
25°	723.9	683.9	523.0	234.0	127.0	122.0	122.0	123.0	125.0	132.0	133.0
27.5°	756.9	711.9	491.0	171.0	116.0	115.0	116.0	117.0	118.0	125.0	127.0
30°	794.9	742.9	450.0	128.0	106.0	106.0	109.0	111.0	111.0	117.0	119.0
32.5°	838.9	783.9	401.0	106.0	96.0	95.0	100.0	103.0	103.0	108.0	110.0
35°	893.9	825.9	342.0	94.0	88.0	86.0	88.0	93.0	95.0	99.0	100.0
37.5°	966.9	875.9	279.0	87.0	82.0	78.0	78.0	79.0	83.0	87.0	88.0
40°	1059.9	930.9	217.0	82.0	76.0	72.0	69.0	68.0	67.0	70.0	72.0
42.5°	1176.9	992.9	162.0	77.0	71.0	65.0	61.0	57.0	52.0	51.0	52.0
45°	1326.9	1068.9	120.0	73.0	68.0	59.0	52.0	45.0	36.0	33.0	34.0
47.5°	1503.9	1147.9	94.0	69.0	66.0	52.0	43.0	31.0	22.0	20.0	21.0
50°	1691.8	1223.9	80.0	64.0	62.0	45.0	31.0	19.0	13.0	13.0	14.0
52.5°	1851.8	1266.9	73.0	60.0	56.0	37.0	20.0	11.0	8.0	8.0	9.0
55°	2006.8	1289.9	68.0	56.0	48.0	26.0	11.0	7.0	5.0	5.0	5.0
57.5°	2166.8	1299.9	62.0	51.0	38.0	16.0	6.0	4.0	3.0	3.0	3.0
60°	2308.8	1280.9	53.0	42.0	25.0	8.0	3.0	3.0	2.0	1.0	1.0
62.5°	2427.8	1244.9	37.0	30.0	15.0	4.0	2.0	1.0	0.0	0.0	0.0
65°	2500.8	1186.9	24.0	20.0	9.0	3.0	1.0	0.0	0.0	0.0	0.0
67.5°	2479.8	1077.9	15.0	13.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0
70°	2237.8	883.9	11.0	8.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	1612.9	597.9	8.0	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	775.9	213.0	5.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	190.0	47.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	42.0	9.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.0	0.0	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)