

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: P381317

Luminaire Tested: **PRV-PA1B-8540-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1B-8540-U-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 85 CRI, 4000K, 930mA 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: 5522.5 lumens
Efficiency: N/A
Efficacy: 74.6 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): 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

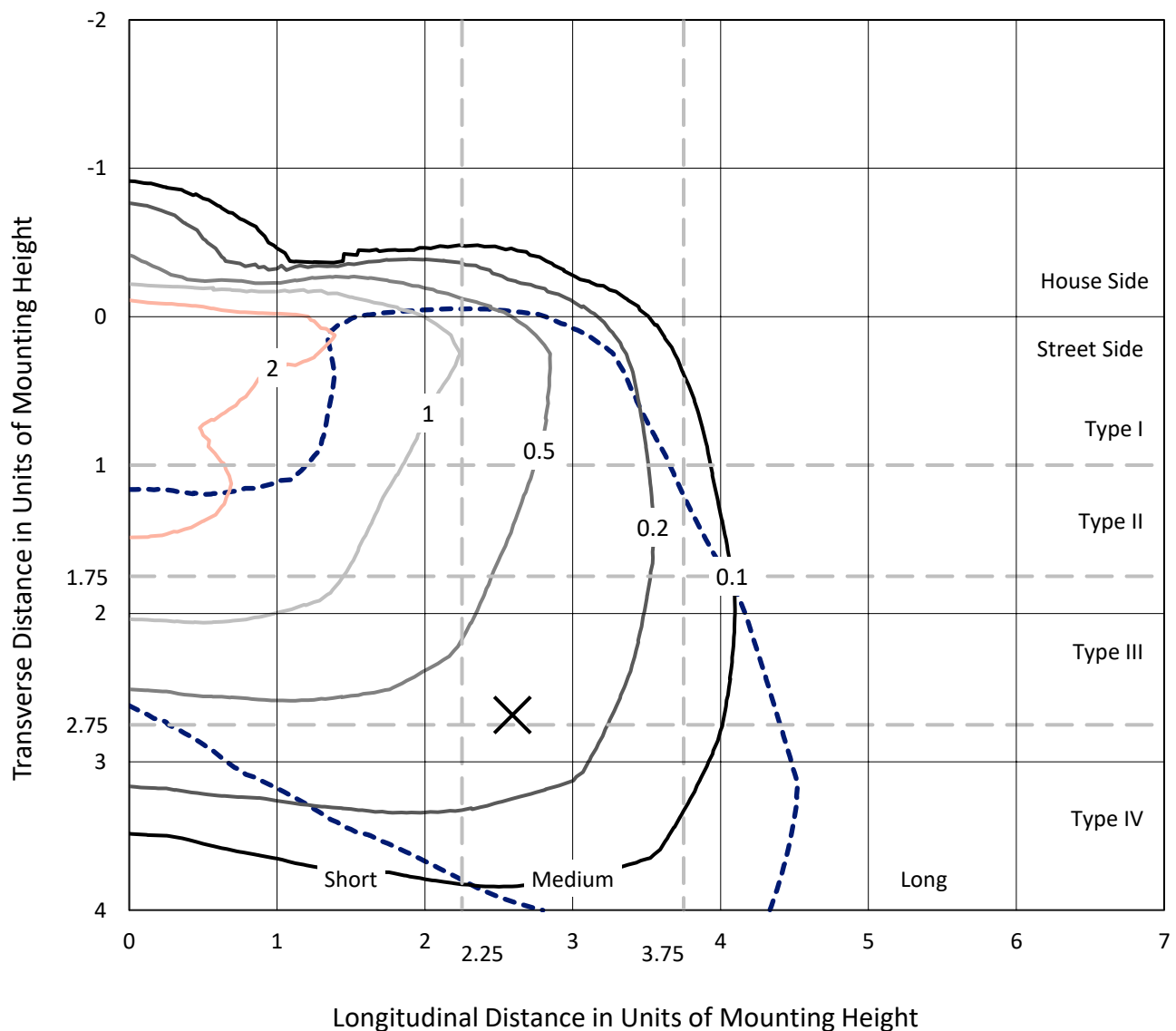


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

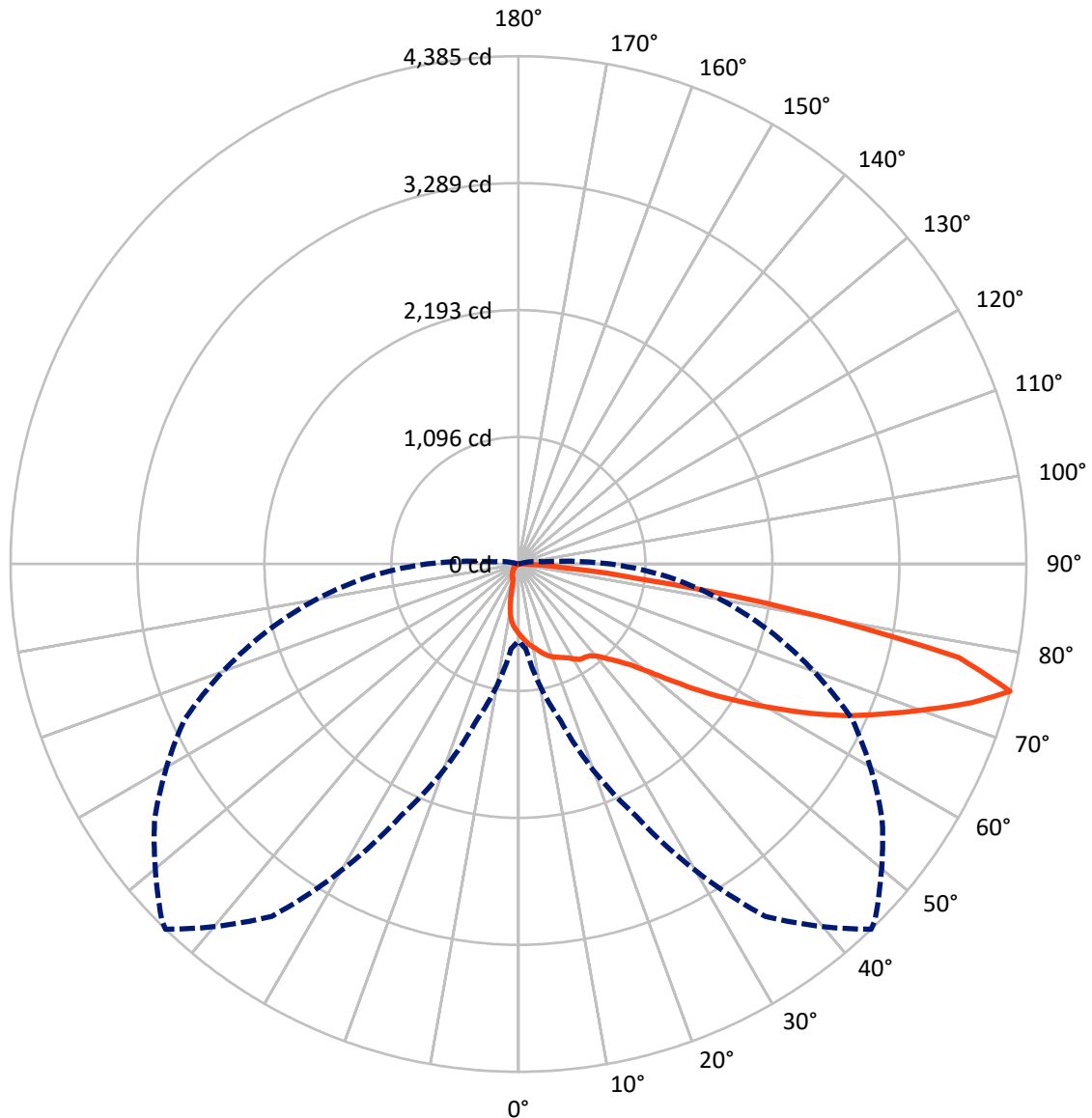


Based on 15 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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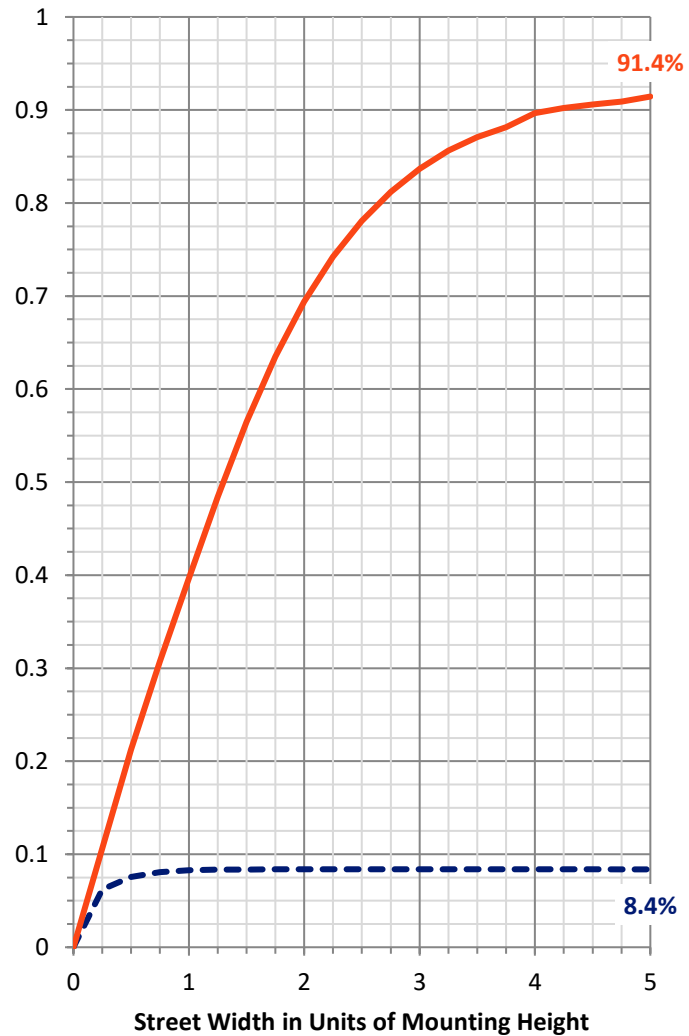
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	465.7	0.0	465.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5056.8	0.0	5056.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	5522.5	0.0	5522.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	1.0
10°-20°	158.8	2.9
20°-30°	262.1	4.7
30°-40°	380.5	6.9
40°-50°	618.5	11.2
50°-60°	1090.3	19.7
60°-70°	1567.0	28.4
70°-80°	1254.8	22.7
80°-90°	133.7	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°	5522.5	100.0
0°-180°	5522.5	100.0

Coefficient of Utilization



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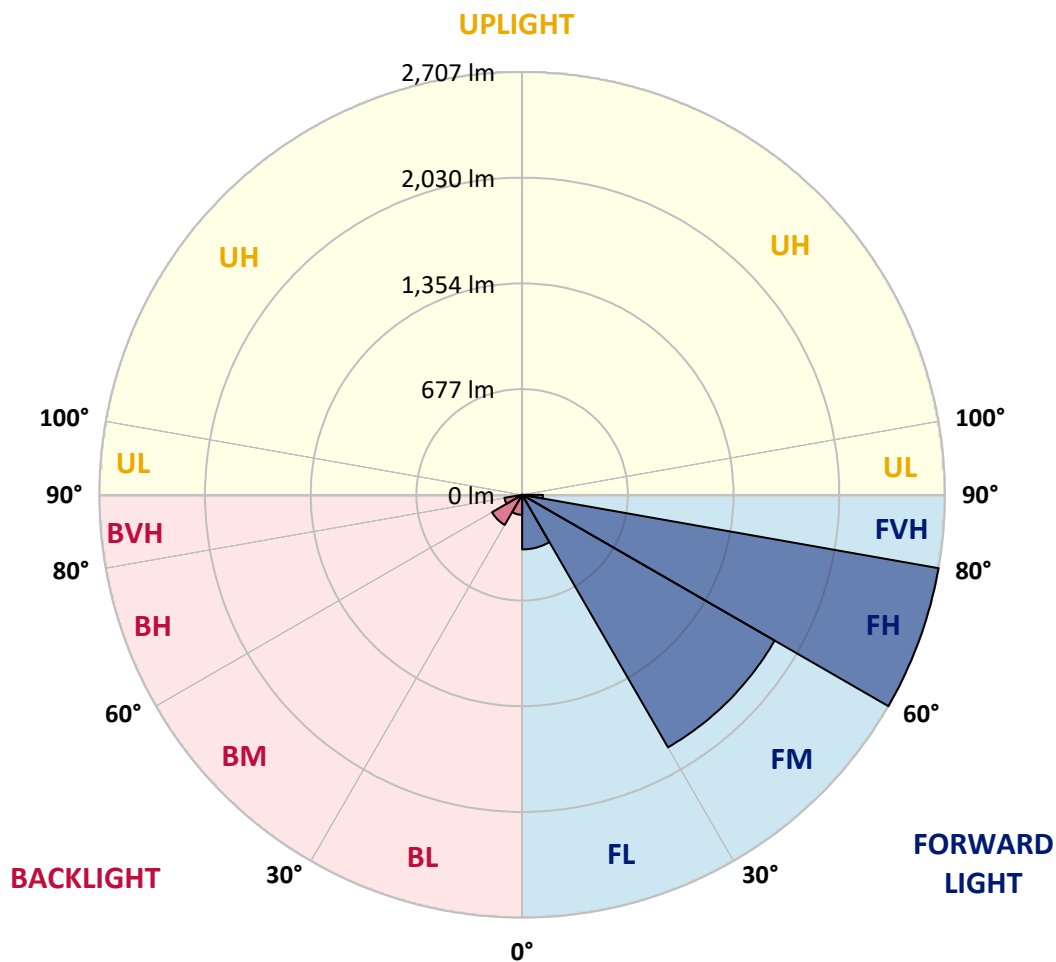
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	349.7	6.3			
FM	(30°-60°)	1866.7	33.8			
FH	(60°-80°)	2707.0	49.0			G2/5000
FVH	(80°-90°)	133.4	2.4			G2/225
BL	(0°-30°)	128.0	2.3	B1/500		
BM	(30°-60°)	222.6	4.0	B1/1000		
BH	(60°-80°)	114.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1
2.5°	655.1	654.1	651.0	645.9	640.8	635.7	634.7	626.6	617.4	610.3	604.2
5°	713.2	712.1	707.0	695.9	684.7	671.4	670.4	651.0	633.7	614.3	598.1
7.5°	773.3	771.3	762.1	744.8	725.4	705.0	703.0	674.5	649.0	623.5	600.1
10°	820.1	818.1	804.8	784.5	758.0	732.5	729.4	699.9	674.5	641.8	610.3
12.5°	866.0	861.9	844.6	822.2	789.6	765.1	762.1	731.5	700.9	667.4	628.6
15°	908.7	903.7	887.4	858.9	824.2	800.8	798.7	766.2	734.5	695.9	653.1
17.5°	938.3	936.3	917.0	885.3	851.7	832.4	830.4	796.7	765.1	724.4	678.5
20°	953.6	953.6	935.3	900.6	870.1	856.8	853.8	822.2	791.6	752.9	705.0
22.5°	956.7	959.7	945.5	907.7	885.3	874.1	872.1	844.6	815.0	779.4	734.5
25°	962.8	962.8	955.7	914.9	898.6	895.5	894.5	870.1	843.6	807.9	764.1
27.5°	969.9	969.9	964.8	925.1	919.0	918.0	917.0	905.7	884.3	842.6	798.7
30°	988.2	989.2	985.2	945.5	941.4	952.6	954.6	948.5	922.1	870.1	834.4
32.5°	1034.1	1024.9	1013.8	959.7	966.8	981.1	982.1	969.9	941.4	899.6	877.2
35°	1149.2	1095.3	1044.3	971.9	975.0	989.2	991.3	990.3	973.0	937.3	926.1
37.5°	1256.2	1179.8	1107.5	1000.5	990.3	1005.6	1009.7	1027.0	1013.8	989.2	992.3
40°	1318.3	1288.8	1237.8	1078.9	1020.9	1044.3	1048.4	1074.8	1069.7	1059.6	1078.9
42.5°	1509.9	1511.9	1456.9	1196.1	1076.9	1114.6	1119.7	1141.1	1148.2	1153.3	1200.2
45°	1732.0	1739.1	1725.9	1407.0	1182.9	1195.1	1202.2	1230.7	1257.2	1289.8	1375.4
47.5°	1998.9	1992.8	1943.9	1664.7	1367.3	1299.0	1304.1	1359.1	1404.9	1476.3	1598.5
50°	2235.3	2250.6	2157.9	1905.2	1627.1	1463.0	1457.9	1511.9	1594.4	1694.3	1848.1
52.5°	2473.7	2451.3	2326.0	2143.6	1934.7	1686.1	1670.8	1700.4	1816.6	1934.7	2092.6
55°	2536.8	2538.9	2496.1	2404.4	2191.5	1957.2	1931.7	1929.6	2074.3	2154.8	2349.4
57.5°	2661.2	2666.3	2676.5	2694.8	2593.9	2228.2	2201.6	2173.1	2313.8	2360.6	2607.2
60°	2787.5	2793.6	2855.8	2954.6	2887.3	2520.6	2492.1	2424.8	2503.3	2566.4	2878.2
62.5°	2771.2	2813.9	2994.3	3191.0	3182.8	2841.5	2805.8	2643.8	2693.8	2748.8	3126.8
65°	2502.2	2548.0	2953.6	3256.2	3479.3	3158.3	3100.3	2870.0	2873.1	2939.3	3366.2
67.5°	2261.8	2311.7	2698.8	3228.6	3674.9	3442.6	3382.5	3097.2	3049.3	3159.3	3494.5
70°	2123.2	2173.1	2496.1	3143.0	3729.9	3757.4	3705.5	3357.0	3259.2	3360.1	3350.9
72.5°	1661.7	1740.1	2237.3	2980.0	3789.0	4094.6	4053.9	3686.1	3437.5	3150.2	2551.1
75°	662.3	734.5	1396.8	2398.3	3714.6	4385.0	4353.4	3833.8	3181.8	2249.6	1306.1
77.5°	199.7	213.9	388.1	1185.9	2723.3	3887.8	3877.7	3223.5	2251.6	1044.3	356.6
80°	66.2	73.4	119.2	327.1	1242.9	2428.9	2474.7	2054.0	1022.9	239.4	72.3
82.5°	27.5	30.5	60.1	131.5	440.1	1046.3	1031.1	920.0	356.6	148.8	26.5
85°	7.1	9.2	27.5	75.4	161.0	360.6	379.0	308.7	201.7	123.2	8.1
87.5°	0.0	0.0	13.2	30.5	72.3	109.0	114.1	93.7	114.1	92.7	4.1
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°	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1
2.5°	599.1	594.0	584.8	578.7	570.6	568.5	564.5	559.3	558.3	553.2	554.2
5°	588.9	580.8	564.5	553.2	540.0	535.9	528.8	523.7	519.6	512.5	513.5
7.5°	586.9	574.6	552.2	530.8	509.4	494.2	472.7	455.4	441.1	425.9	428.9
10°	594.0	578.7	547.1	517.6	478.9	429.9	373.9	337.2	318.9	300.5	302.6
12.5°	608.2	589.9	549.1	504.3	425.9	342.3	264.9	214.9	201.7	193.6	194.6
15°	629.6	607.2	555.2	478.9	354.5	247.6	176.3	154.9	160.0	163.0	163.0
17.5°	652.1	626.6	560.3	433.0	274.0	173.2	143.7	141.6	148.8	155.9	155.9
20°	679.6	646.9	561.3	374.9	197.6	140.6	135.5	135.5	140.6	148.8	148.8
22.5°	706.0	669.4	552.2	308.7	150.8	130.4	130.4	130.4	133.5	141.6	142.7
25°	737.6	696.9	532.8	238.4	129.4	124.3	124.3	125.3	127.3	134.5	135.5
27.5°	771.3	725.4	500.3	174.2	118.2	117.1	118.2	119.2	120.2	127.3	129.4
30°	809.9	757.0	458.4	130.4	108.0	108.0	111.0	113.1	113.1	119.2	121.2
32.5°	854.8	798.7	408.6	108.0	97.8	96.8	101.9	104.9	104.9	110.0	112.0
35°	910.8	841.6	348.4	95.8	89.7	87.6	89.7	94.7	96.8	100.9	101.9
37.5°	985.2	892.5	284.2	88.6	83.5	79.5	79.5	80.5	84.6	88.6	89.7
40°	1079.9	948.5	221.1	83.5	77.4	73.4	70.3	69.3	68.3	71.3	73.4
42.5°	1199.2	1011.7	165.1	78.5	72.3	66.2	62.2	58.1	53.0	52.0	53.0
45°	1352.0	1089.2	122.2	74.4	69.3	60.1	53.0	45.9	36.6	33.6	34.6
47.5°	1532.3	1169.6	95.8	70.3	67.3	53.0	43.8	31.6	22.4	20.4	21.4
50°	1723.9	1247.0	81.5	65.2	63.2	45.9	31.6	19.3	13.2	13.2	14.3
52.5°	1886.9	1290.9	74.4	61.2	57.1	37.7	20.4	11.2	8.1	8.1	9.2
55°	2044.8	1314.3	69.3	57.1	48.9	26.5	11.2	7.1	5.1	5.1	5.1
57.5°	2207.7	1324.4	63.2	52.0	38.7	16.3	6.1	4.1	3.1	3.1	3.1
60°	2352.4	1305.1	54.0	42.8	25.4	8.1	3.1	3.1	2.0	1.0	1.0
62.5°	2473.7	1268.5	37.7	30.5	15.3	4.1	2.0	1.0	0.0	0.0	0.0
65°	2548.0	1209.3	24.4	20.4	9.2	3.1	1.0	0.0	0.0	0.0	0.0
67.5°	2526.7	1098.3	15.3	13.2	4.1	2.0	1.0	0.0	0.0	0.0	0.0
70°	2280.1	900.6	11.2	8.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	1643.4	609.3	8.1	5.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	790.6	217.0	5.1	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	193.6	47.9	3.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	42.8	9.2	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.3	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	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)