

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-8540-U-T4W-HSS**

Issue Date: 3/3/2020

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: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1A-8540-U-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 85 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: 4243.9 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - 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

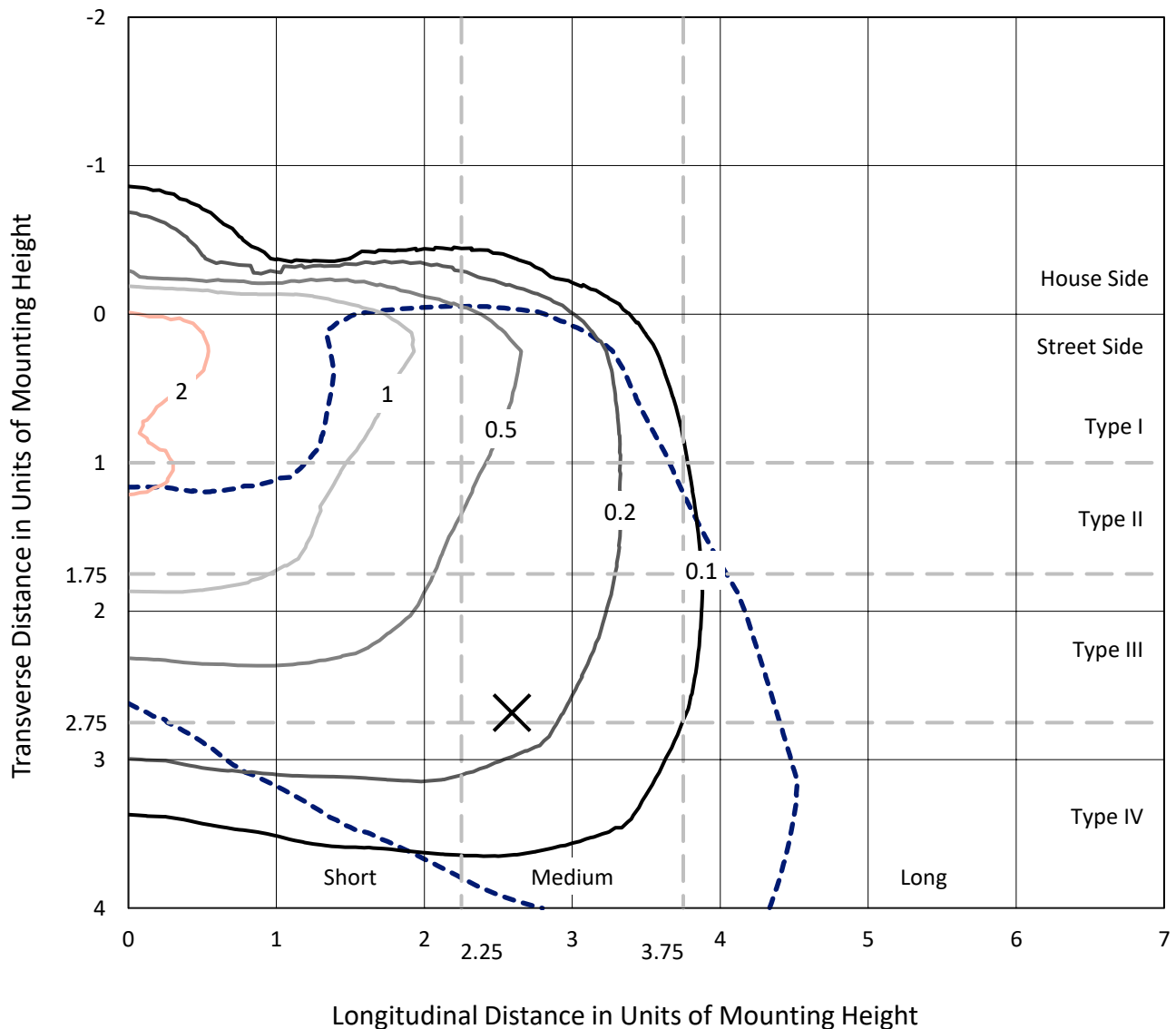


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

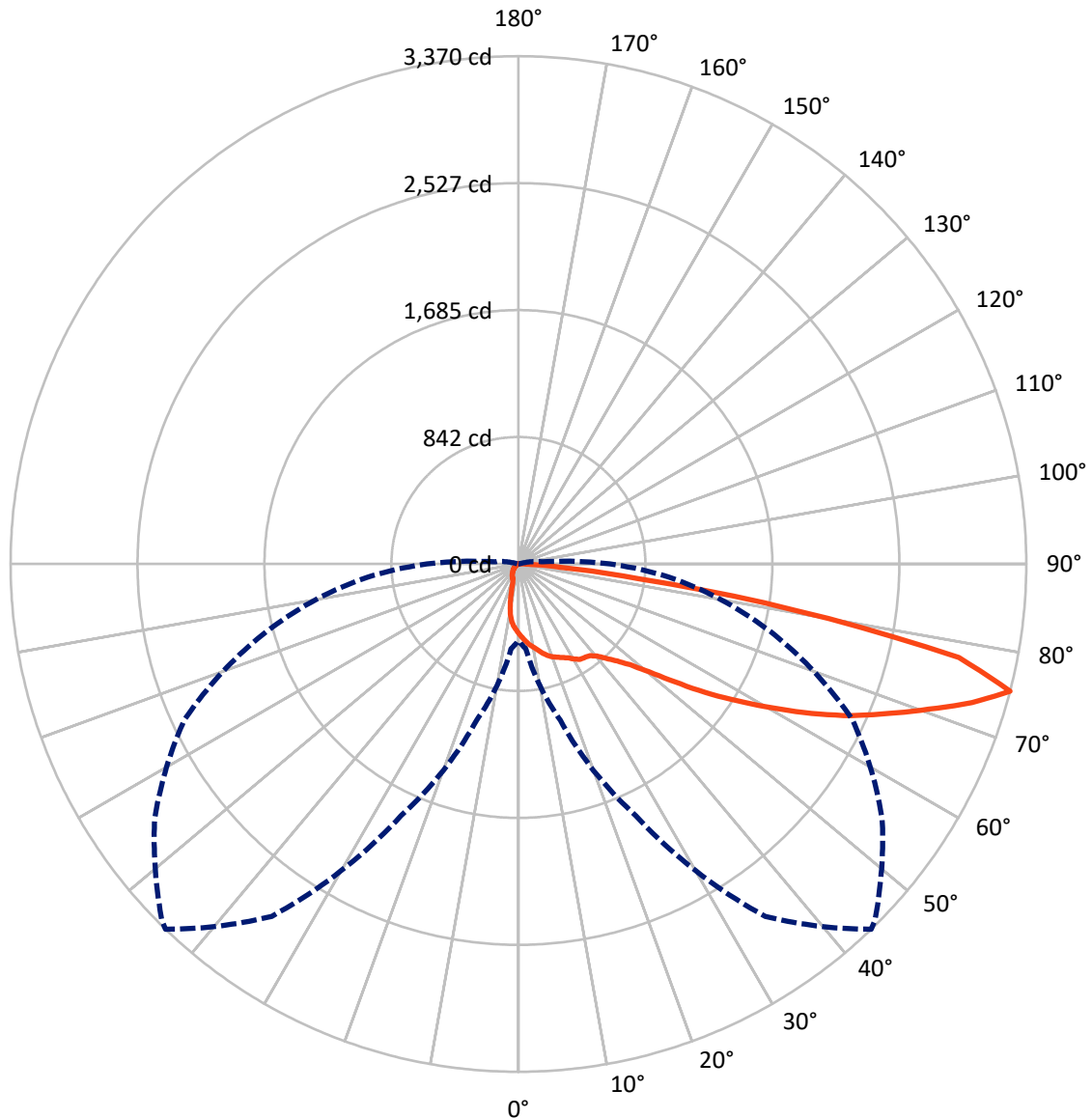


Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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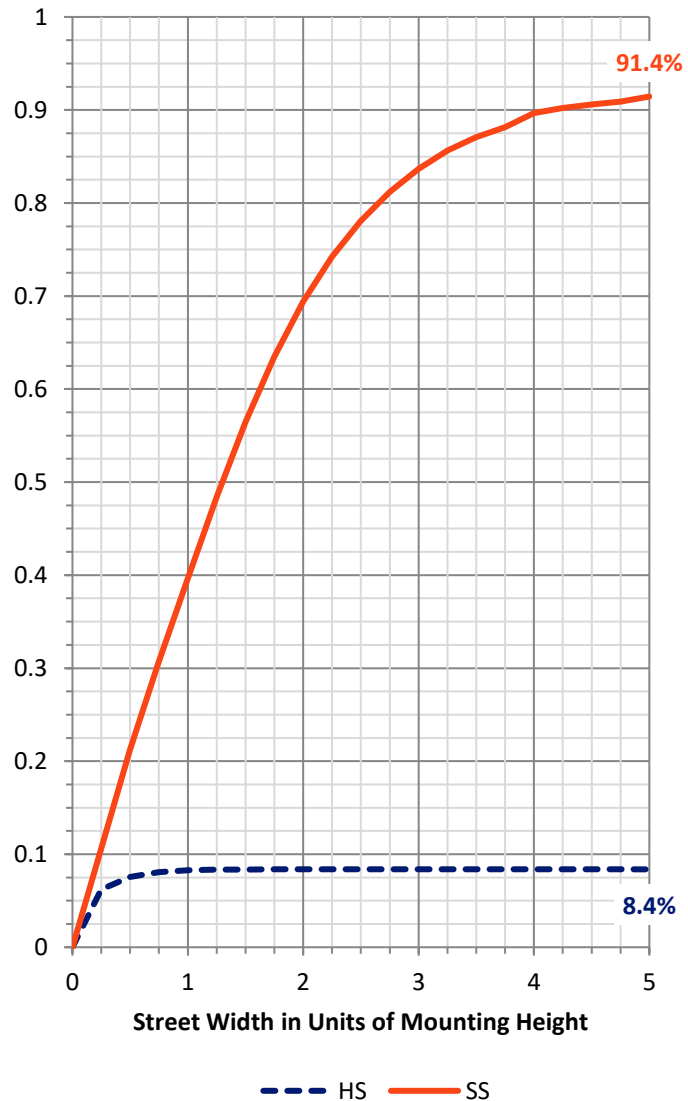
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	357.9	0.0	357.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3886.0	0.0	3886.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	4243.9	0.0	4243.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.0
10°-20°	122.1	2.9
20°-30°	201.4	4.7
30°-40°	292.4	6.9
40°-50°	475.3	11.2
50°-60°	837.9	19.7
60°-70°	1204.2	28.4
70°-80°	964.3	22.7
80°-90°	102.7	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°	4243.9	100.0
0°-180°	4243.9	100.0

Coefficient of Utilization



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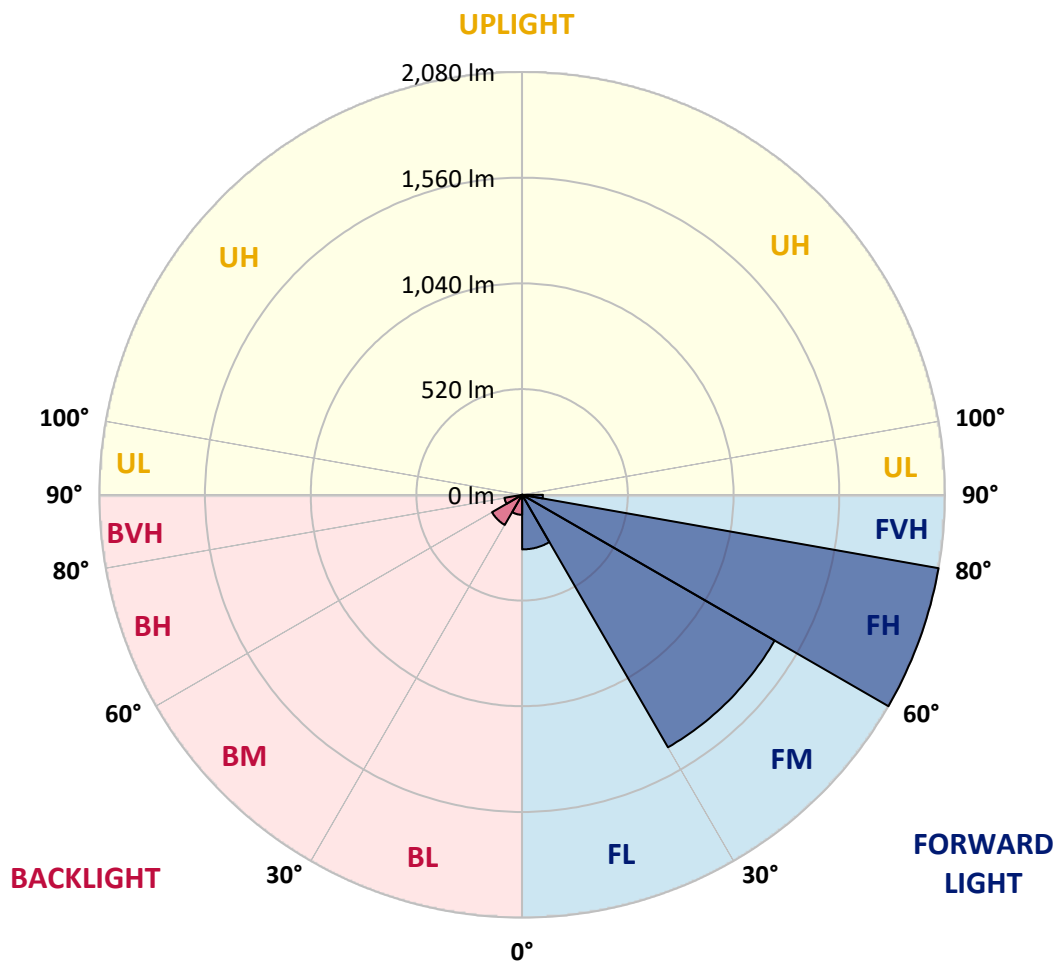
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	268.7	6.3			
FM	(30°-60°)	1434.5	33.8			
FH	(60°-80°)	2080.3	49.0			G2/5000
FVH	(80°-90°)	102.5	2.4			G2/225
BL	(0°-30°)	98.3	2.3	B0/110		
BM	(30°-60°)	171.1	4.0	B0/220		
BH	(60°-80°)	88.2	2.1	B0/110		G0/110
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: B0-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9
2.5°	503.4	502.6	500.3	496.3	492.4	488.5	487.7	481.5	474.4	468.9	464.2
5°	548.0	547.2	543.3	534.7	526.1	515.9	515.1	500.3	486.9	472.1	459.5
7.5°	594.2	592.7	585.6	572.3	557.4	541.8	540.2	518.3	498.7	479.1	461.1
10°	630.2	628.7	618.5	602.8	582.5	562.9	560.5	537.8	518.3	493.2	468.9
12.5°	665.5	662.3	649.0	631.8	606.7	588.0	585.6	562.1	538.6	512.8	483.0
15°	698.4	694.4	681.9	660.0	633.4	615.4	613.8	588.7	564.5	534.7	501.8
17.5°	721.1	719.5	704.6	680.3	654.5	639.6	638.1	612.2	588.0	556.6	521.4
20°	732.8	732.8	718.7	692.1	668.6	658.4	656.1	631.8	608.3	578.6	541.8
22.5°	735.2	737.5	726.5	697.6	680.3	671.7	670.2	649.0	626.3	598.9	564.5
25°	739.9	739.9	734.4	703.1	690.5	688.2	687.4	668.6	648.2	620.8	587.2
27.5°	745.3	745.3	741.4	710.9	706.2	705.4	704.6	696.0	679.6	647.5	613.8
30°	759.4	760.2	757.1	726.5	723.4	732.0	733.6	728.9	708.5	668.6	641.2
32.5°	794.7	787.6	779.0	737.5	743.0	754.0	754.7	745.3	723.4	691.3	674.1
35°	883.1	841.6	802.5	746.9	749.3	760.2	761.8	761.0	747.7	720.3	711.7
37.5°	965.4	906.6	851.0	768.8	761.0	772.7	775.9	789.2	779.0	760.2	762.6
40°	1013.1	990.4	951.3	829.1	784.5	802.5	805.6	826.0	822.1	814.2	829.1
42.5°	1160.3	1161.9	1119.6	919.2	827.6	856.5	860.4	876.9	882.4	886.3	922.3
45°	1330.9	1336.4	1326.2	1081.2	909.0	918.4	923.9	945.8	966.1	991.2	1057.0
47.5°	1536.1	1531.4	1493.8	1279.3	1050.7	998.2	1002.2	1044.4	1079.7	1134.5	1228.4
50°	1717.7	1729.5	1658.2	1464.1	1250.4	1124.3	1120.4	1161.9	1225.3	1302.0	1420.2
52.5°	1901.0	1883.7	1787.4	1647.3	1486.8	1295.7	1284.0	1306.7	1395.9	1486.8	1608.1
55°	1949.5	1951.1	1918.2	1847.7	1684.1	1504.0	1484.4	1482.8	1594.0	1655.9	1805.4
57.5°	2045.0	2049.0	2056.8	2070.9	1993.4	1712.3	1691.9	1670.0	1778.0	1814.1	2003.5
60°	2142.1	2146.8	2194.5	2270.5	2218.8	1937.0	1915.1	1863.4	1923.7	1972.2	2211.7
62.5°	2129.6	2162.4	2301.0	2452.1	2445.9	2183.6	2156.2	2031.7	2070.1	2112.4	2402.8
65°	1922.9	1958.1	2269.7	2502.2	2673.7	2427.1	2382.4	2205.5	2207.8	2258.7	2586.8
67.5°	1738.1	1776.5	2074.0	2481.1	2824.0	2645.5	2599.3	2380.1	2343.3	2427.8	2685.5
70°	1631.6	1670.0	1918.2	2415.3	2866.3	2887.5	2847.5	2579.8	2504.6	2582.1	2575.1
72.5°	1277.0	1337.2	1719.3	2290.0	2911.7	3146.6	3115.2	2832.7	2641.6	2420.8	1960.5
75°	508.9	564.5	1073.4	1843.0	2854.6	3369.7	3345.4	2946.2	2445.1	1728.7	1003.7
77.5°	153.5	164.4	298.3	911.3	2092.8	2987.7	2979.9	2477.2	1730.3	802.5	274.0
80°	50.9	56.4	91.6	251.3	955.2	1866.5	1901.8	1578.4	786.1	184.0	55.6
82.5°	21.1	23.5	46.2	101.0	338.3	804.1	792.3	707.0	274.0	114.3	20.4
85°	5.5	7.0	21.1	57.9	123.7	277.2	291.3	237.2	155.0	94.7	6.3
87.5°	0.0	0.0	10.2	23.5	55.6	83.8	87.7	72.0	87.7	71.3	3.1
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°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9
2.5°	460.3	456.4	449.4	444.7	438.4	436.8	433.7	429.9	429.1	425.2	426.0
5°	452.5	446.2	433.7	425.2	415.0	411.9	406.4	402.5	399.3	393.8	394.6
7.5°	450.9	441.5	424.4	407.9	391.5	379.8	363.3	350.0	339.0	327.3	329.6
10°	456.4	444.7	420.5	397.8	368.0	330.4	287.4	259.2	245.1	231.0	232.6
12.5°	467.4	453.3	422.0	387.6	327.3	263.1	203.6	165.2	155.0	148.8	149.6
15°	483.8	466.6	426.7	368.0	272.5	190.3	135.5	119.0	122.9	125.3	125.3
17.5°	501.0	481.5	430.6	332.8	210.6	133.1	110.4	108.8	114.3	119.8	119.8
20°	522.2	497.1	431.4	288.1	151.9	108.1	104.1	104.1	108.1	114.3	114.3
22.5°	542.5	514.4	424.4	237.2	115.9	100.2	100.2	100.2	102.6	108.8	109.6
25°	566.8	535.5	409.5	183.2	99.4	95.5	95.5	96.3	97.9	103.4	104.1
27.5°	592.7	557.4	384.5	133.9	90.8	90.0	90.8	91.6	92.4	97.9	99.4
30°	622.4	581.7	352.4	100.2	83.0	83.0	85.3	86.9	86.9	91.6	93.2
32.5°	656.9	613.8	314.0	83.0	75.2	74.4	78.3	80.6	80.6	84.6	86.1
35°	699.9	646.7	267.8	73.6	68.9	67.3	68.9	72.8	74.4	77.5	78.3
37.5°	757.1	685.8	218.5	68.1	64.2	61.1	61.1	61.9	65.0	68.1	68.9
40°	829.9	728.9	169.9	64.2	59.5	56.4	54.0	53.2	52.5	54.8	56.4
42.5°	921.5	777.4	126.8	60.3	55.6	50.9	47.8	44.6	40.7	39.9	40.7
45°	1039.0	836.9	94.0	57.2	53.2	46.2	40.7	35.2	28.2	25.8	26.6
47.5°	1177.6	898.8	73.6	54.0	51.7	40.7	33.7	24.3	17.2	15.7	16.4
50°	1324.7	958.3	62.6	50.1	48.5	35.2	24.3	14.9	10.2	10.2	11.0
52.5°	1450.0	992.0	57.2	47.0	43.8	29.0	15.7	8.6	6.3	6.3	7.0
55°	1571.3	1010.0	53.2	43.8	37.6	20.4	8.6	5.5	3.9	3.9	3.9
57.5°	1696.6	1017.8	48.5	39.9	29.8	12.5	4.7	3.1	2.3	2.3	2.3
60°	1807.8	1002.9	41.5	32.9	19.6	6.3	2.3	2.3	1.6	0.8	0.8
62.5°	1901.0	974.8	29.0	23.5	11.7	3.1	1.6	0.8	0.0	0.0	0.0
65°	1958.1	929.3	18.8	15.7	7.0	2.3	0.8	0.0	0.0	0.0	0.0
67.5°	1941.7	844.0	11.7	10.2	3.1	1.6	0.8	0.0	0.0	0.0	0.0
70°	1752.2	692.1	8.6	6.3	2.3	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	1262.9	468.2	6.3	3.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	607.5	166.8	3.9	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	148.8	36.8	2.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	32.9	7.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.0	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.8	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)