

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: P381380

Luminaire Tested: **PRV-PA1A-8540-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1A-8540-U-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 85 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4147.5 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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



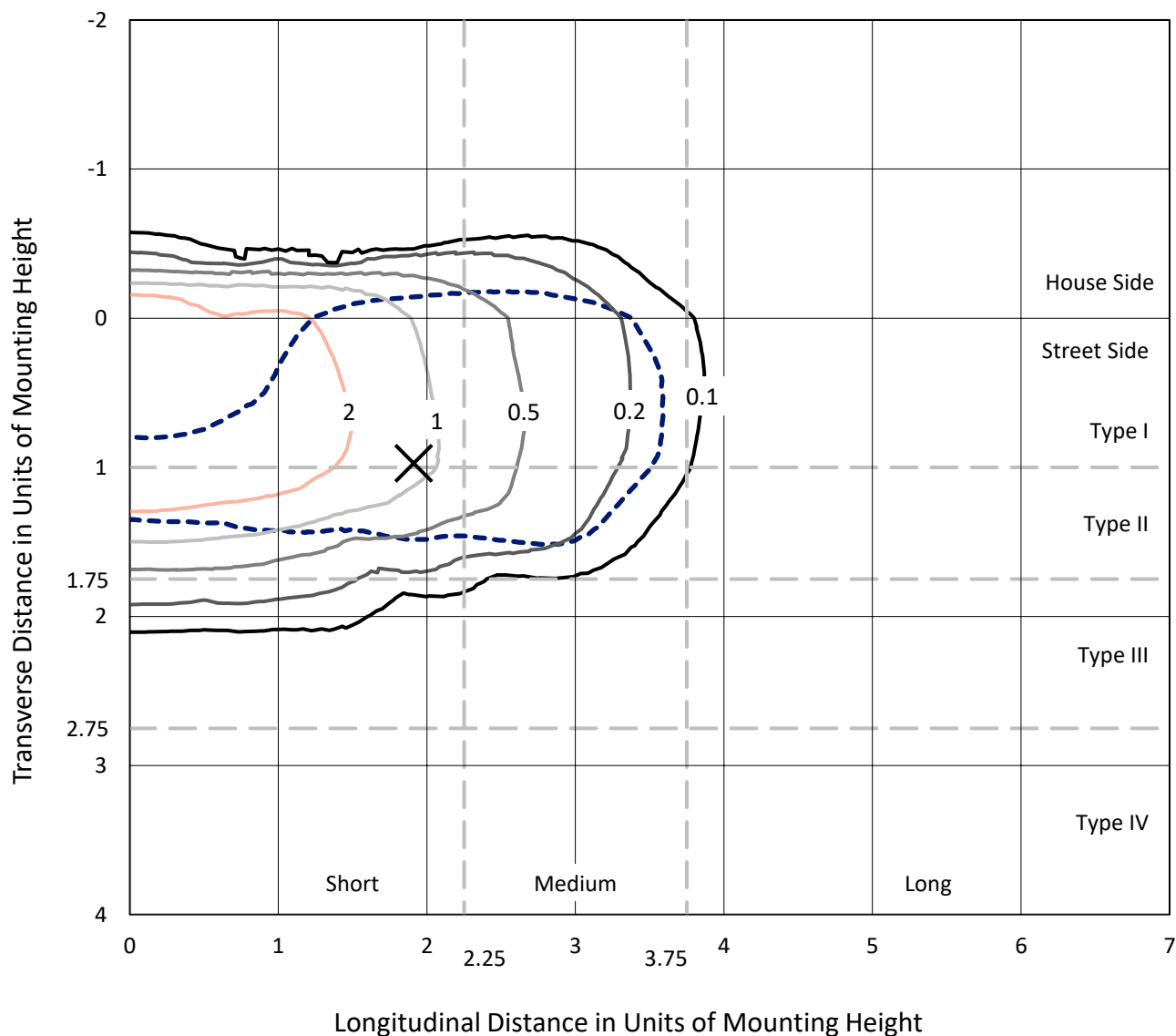
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

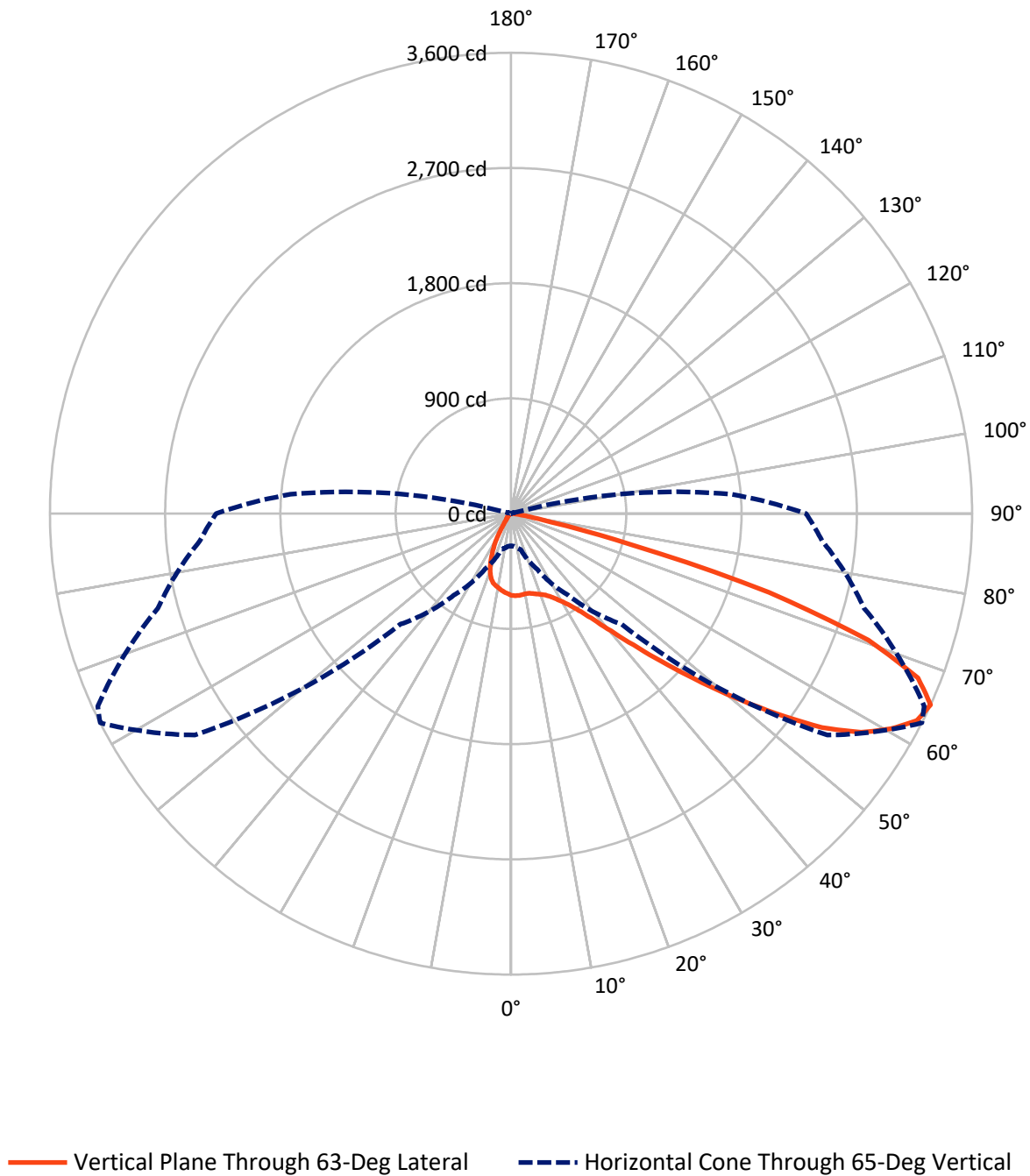


Based on 15 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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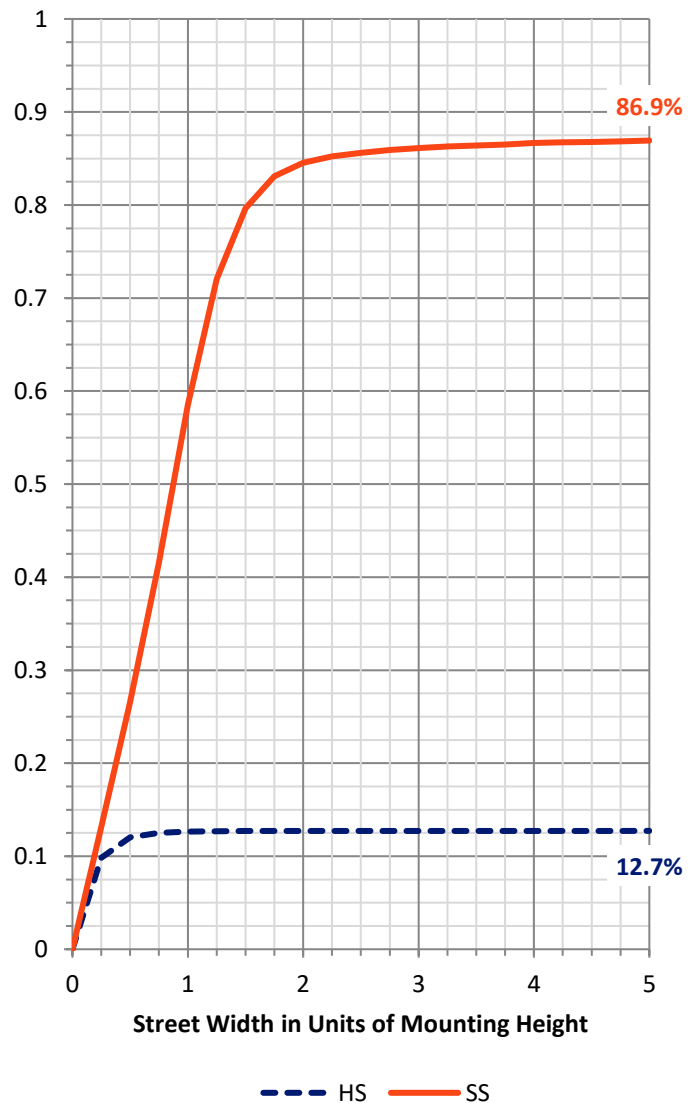
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	533.8	0.0	533.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	3613.7	0.0	3613.7
	% Fixture	87.1	0.0	87.1
Total	Lumens	4147.5	0.0	4147.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	1.4
10°-20°	143.8	3.5
20°-30°	213.2	5.1
30°-40°	395.8	9.5
40°-50°	838.5	20.2
50°-60°	1159.4	28.0
60°-70°	928.1	22.4
70°-80°	385.6	9.3
80°-90°	24.8	0.6
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°	4147.5	100.0
0°-180°	4147.5	100.0

Coefficient of Utilization



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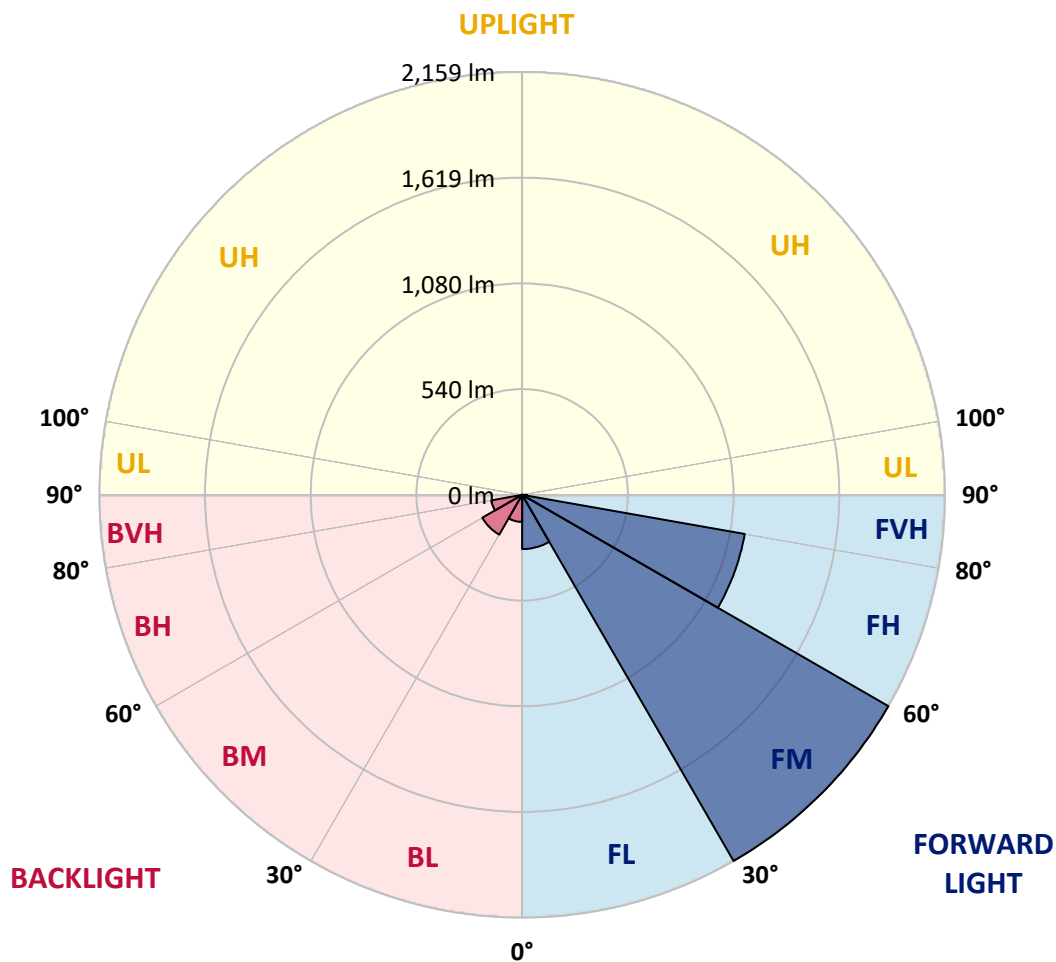
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	277.0	6.7			
FM	(30°-60°)	2159.2	52.1			
FH	(60°-80°)	1153.9	27.8			G1/1800
FVH	(80°-90°)	23.6	0.6			G1/100
BL	(0°-30°)	138.3	3.3	B1/500		
BM	(30°-60°)	234.5	5.7	B1/1000		
BH	(60°-80°)	159.8	3.9	B1/500		G1/500
BVH	(80°-90°)	1.1	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9
2.5°	649.9	648.3	646.8	646.0	646.0	645.2	642.1	641.3	639.7	638.1	636.6
5°	643.6	641.3	640.5	641.3	642.1	643.6	642.1	642.1	640.5	638.9	635.8
7.5°	628.0	626.4	627.2	629.5	630.3	635.8	636.6	638.9	638.9	637.4	635.0
10°	609.2	608.4	608.4	612.3	616.2	624.1	629.5	635.8	636.6	636.6	632.7
12.5°	595.1	594.3	596.6	601.3	609.2	619.4	628.7	638.1	639.7	640.5	634.2
15°	586.5	586.5	589.6	599.0	610.0	624.1	635.0	647.5	649.1	648.3	639.7
17.5°	578.6	579.4	585.7	601.3	613.9	632.7	646.0	660.1	660.9	660.1	646.0
20°	575.5	577.1	586.5	606.8	620.9	642.1	659.3	673.4	674.2	671.0	652.2
22.5°	584.1	584.9	596.6	618.6	631.9	655.4	677.3	690.6	691.4	686.7	661.6
25°	613.9	613.9	624.1	642.8	654.6	678.1	701.6	717.2	717.2	711.7	682.8
27.5°	683.6	677.3	674.9	680.4	684.3	709.4	734.5	754.0	753.2	745.4	710.2
30°	818.2	802.6	777.5	749.3	735.2	752.5	776.0	801.0	800.2	787.7	743.8
32.5°	1044.5	1021.8	962.3	887.9	827.6	808.1	830.0	857.4	858.2	843.3	797.9
35°	1361.6	1325.6	1219.1	1115.8	978.0	903.6	909.8	939.6	949.0	941.2	888.7
37.5°	1667.0	1634.1	1532.3	1389.0	1201.9	1050.0	1023.4	1049.2	1060.2	1060.2	1004.6
40°	1974.7	1936.4	1846.3	1702.2	1504.9	1278.6	1183.1	1204.3	1216.0	1218.3	1145.5
42.5°	2221.4	2196.3	2127.4	2015.4	1830.7	1679.5	1413.3	1401.6	1412.5	1403.9	1309.2
45°	2392.1	2372.5	2324.7	2282.4	2192.4	2116.4	1721.0	1642.0	1649.0	1619.2	1493.2
47.5°	2427.3	2405.4	2395.2	2453.9	2518.1	2536.9	2099.2	1927.7	1920.7	1854.9	1684.2
50°	2273.8	2276.2	2313.8	2481.3	2749.1	2918.2	2537.7	2250.3	2224.5	2078.1	1862.0
52.5°	1942.6	1980.2	2075.0	2346.7	2819.6	3195.4	2976.2	2592.5	2552.6	2295.0	1995.1
55°	1519.8	1568.3	1724.2	2036.6	2672.4	3319.1	3345.8	2948.0	2857.2	2457.8	2098.4
57.5°	1129.9	1144.7	1326.4	1611.4	2323.9	3197.8	3535.2	3222.0	3105.4	2587.8	2201.0
60°	703.9	713.3	905.1	1227.0	1760.2	2749.1	3535.2	3410.7	3299.6	2704.5	2295.0
62.5°	437.7	440.8	512.9	840.9	1196.4	2038.9	3388.8	3557.2	3467.9	2788.3	2375.6
65°	252.1	255.3	288.9	475.3	778.3	1220.7	3014.6	3600.2	3560.3	2854.8	2438.3
67.5°	184.0	185.6	198.9	267.0	509.0	627.2	2264.4	3427.2	3477.3	2887.7	2436.7
70°	159.7	162.1	179.3	208.3	367.2	385.2	1152.6	2959.7	3099.9	2840.7	2363.9
72.5°	122.9	126.1	151.9	195.8	269.4	277.2	417.3	2106.3	2318.5	2547.1	2164.2
75°	84.6	87.7	113.5	161.3	222.4	207.5	229.4	969.4	1223.0	1708.5	1647.4
77.5°	54.0	54.8	71.3	117.4	191.8	147.2	157.4	316.3	444.0	772.8	777.5
80°	36.0	36.8	43.8	76.0	131.5	136.2	97.1	146.4	160.5	225.5	156.6
82.5°	21.9	21.9	29.8	47.8	79.9	112.8	63.4	76.7	82.2	86.9	40.7
85°	8.6	8.6	18.0	31.3	50.1	52.5	39.9	44.6	47.0	50.9	18.8
87.5°	2.3	2.3	10.2	17.2	21.9	24.3	24.3	21.9	23.5	29.0	9.4
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°	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9	638.9
2.5°	635.8	633.4	630.3	627.2	624.1	621.7	619.4	619.4	617.8	615.4	613.9
5°	634.2	630.3	623.3	617.8	609.2	602.9	598.2	594.3	591.9	586.5	585.7
7.5°	631.9	627.2	617.0	606.0	591.9	581.0	570.0	562.2	554.4	548.1	546.5
10°	628.0	622.5	607.6	591.9	572.4	552.0	526.2	496.4	469.0	453.4	448.7
12.5°	628.0	620.9	601.3	580.2	552.0	501.9	436.1	370.4	319.5	296.8	290.5
15°	631.9	622.5	596.6	567.7	515.2	413.4	306.9	220.0	164.4	147.2	143.3
17.5°	635.8	622.5	589.6	550.4	447.9	299.9	174.6	115.9	97.9	94.0	94.0
20°	637.4	620.9	580.2	518.3	357.8	186.4	104.1	86.9	79.9	77.5	77.5
22.5°	643.6	621.7	573.2	472.1	260.0	109.6	82.2	72.8	65.8	63.4	63.4
25°	659.3	631.1	574.7	413.4	166.8	83.0	69.7	60.3	53.2	50.1	50.1
27.5°	684.3	652.2	583.3	345.3	104.9	71.3	58.7	48.5	43.1	39.9	39.9
30°	712.5	675.7	587.2	267.0	78.3	60.3	47.8	38.4	34.5	32.1	31.3
32.5°	761.9	716.4	584.1	183.2	64.2	50.9	38.4	30.5	27.4	26.6	26.6
35°	840.9	787.7	577.9	115.1	53.2	40.7	30.5	25.1	22.7	21.9	21.1
37.5°	948.2	891.8	559.1	76.0	43.8	32.1	25.1	21.1	18.8	18.0	18.0
40°	1079.0	1010.9	523.0	57.9	37.6	25.8	21.1	18.0	16.4	15.7	15.7
42.5°	1228.5	1143.2	465.9	50.1	31.3	21.9	18.0	14.9	14.1	13.3	13.3
45°	1392.2	1281.8	386.8	44.6	26.6	18.0	14.9	13.3	11.7	11.7	11.0
47.5°	1566.0	1421.1	297.5	39.2	22.7	15.7	13.3	11.0	10.2	9.4	9.4
50°	1733.6	1545.6	209.1	33.7	18.8	13.3	11.0	9.4	8.6	7.8	7.8
52.5°	1851.8	1620.8	148.0	29.0	15.7	11.7	8.6	7.0	6.3	6.3	6.3
55°	1946.5	1667.8	103.4	24.3	13.3	10.2	7.0	5.5	5.5	4.7	4.7
57.5°	2035.8	1698.3	76.0	20.4	11.0	7.8	5.5	3.9	3.9	3.1	3.1
60°	2128.2	1714.8	57.9	16.4	9.4	6.3	3.9	3.1	2.3	2.3	2.3
62.5°	2221.4	1724.9	44.6	13.3	7.8	4.7	3.1	2.3	1.6	0.8	0.8
65°	2302.8	1728.1	34.5	10.2	6.3	3.1	2.3	0.8	0.0	0.0	0.0
67.5°	2327.1	1692.1	26.6	7.8	4.7	2.3	1.6	0.0	0.0	0.0	0.0
70°	2261.3	1596.5	20.4	6.3	3.9	1.6	0.8	0.0	0.0	0.0	0.0
72.5°	2006.8	1338.9	15.7	3.9	3.1	1.6	0.8	0.0	0.0	0.0	0.0
75°	1436.0	714.1	11.0	3.1	2.3	0.8	0.0	0.0	0.0	0.0	0.0
77.5°	660.9	276.4	7.8	2.3	1.6	0.8	0.0	0.0	0.0	0.0	0.0
80°	129.2	68.9	3.1	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.8	11.7	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.2	3.9	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	1.6	0.8	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)