

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: P381244

Luminaire Tested: **PRV-PA1A-730-U-T3-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1A-730-U-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5093 lumens
Efficiency: N/A
Efficacy: 94.3 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

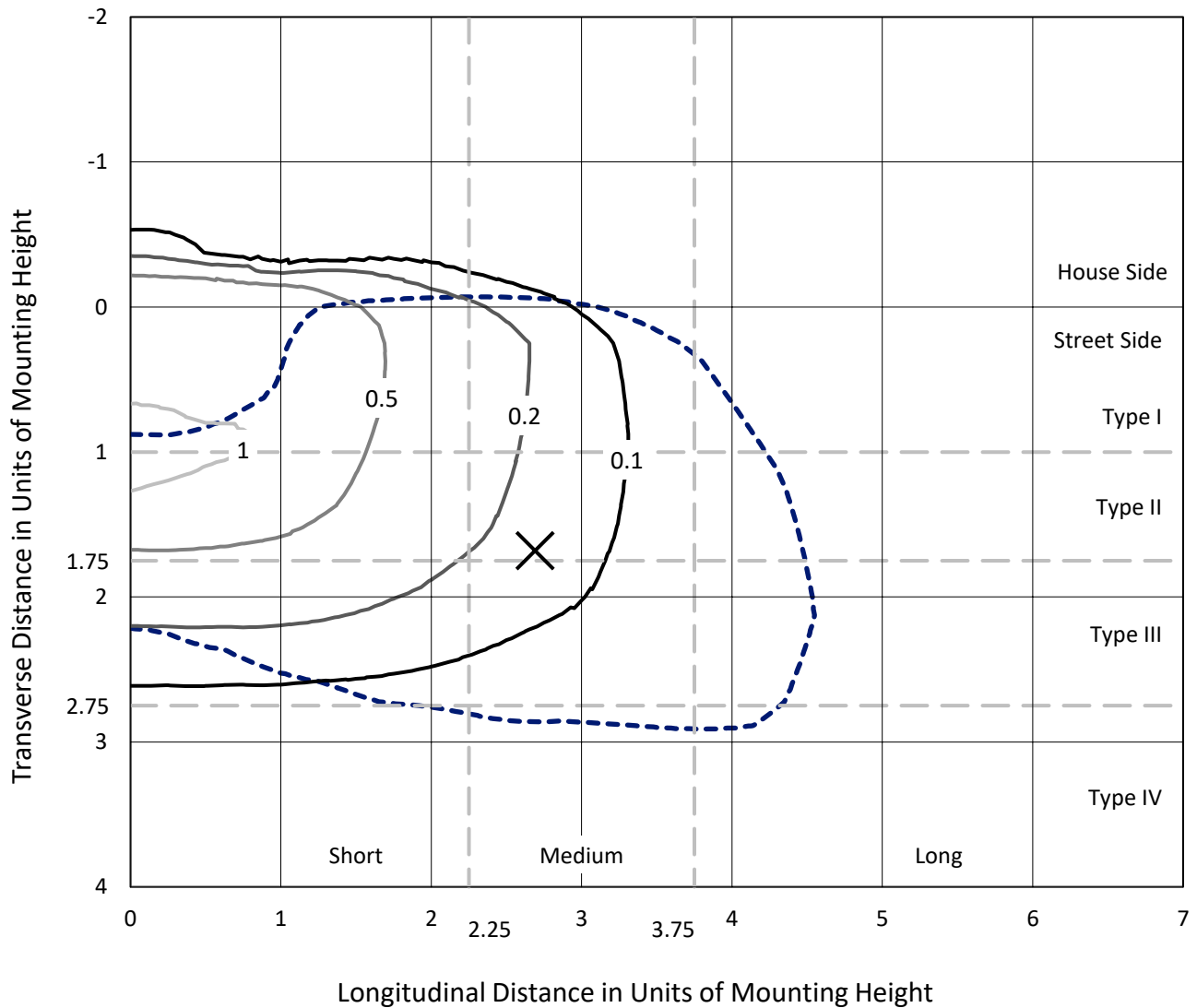
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

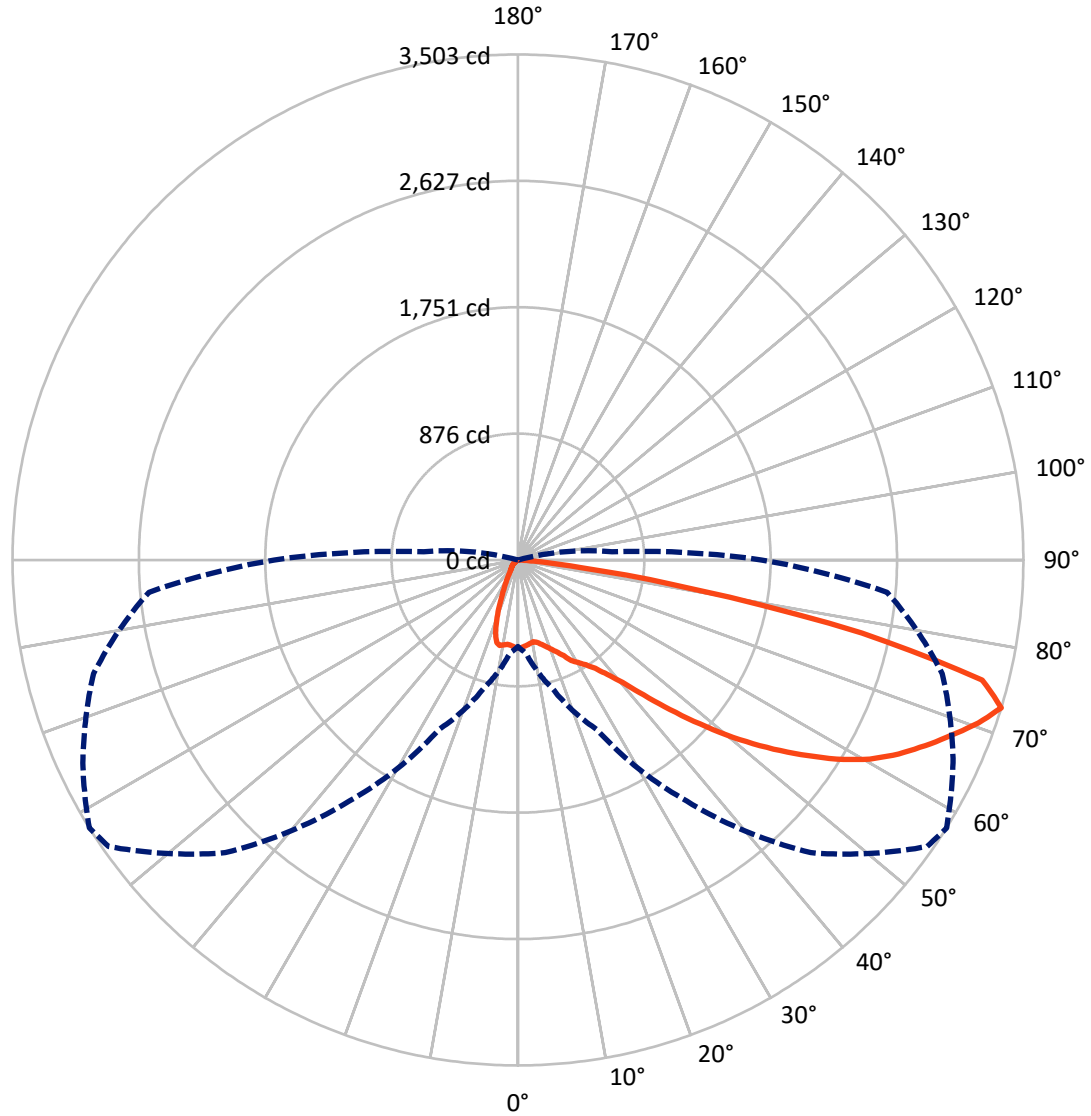
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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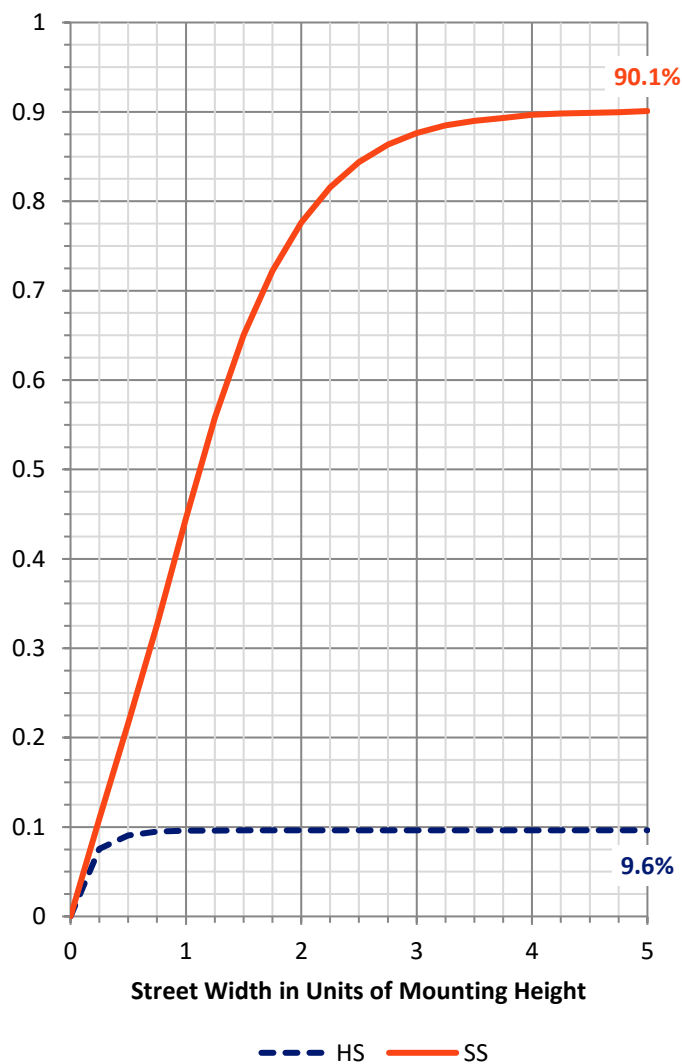
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	495.3	0.0	495.3
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	4597.7	0.0	4597.7
	% Fixture	90.3	0.0	90.3
Total	Lumens	5093.0	0.0	5093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	1.1
10°-20°	146.1	2.9
20°-30°	229.5	4.5
30°-40°	395.8	7.8
40°-50°	753.0	14.8
50°-60°	1192.5	23.4
60°-70°	1391.5	27.3
70°-80°	871.5	17.1
80°-90°	57.2	1.1
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°	5093.0	100.0
0°-180°	5093.0	100.0

Coefficient of Utilization



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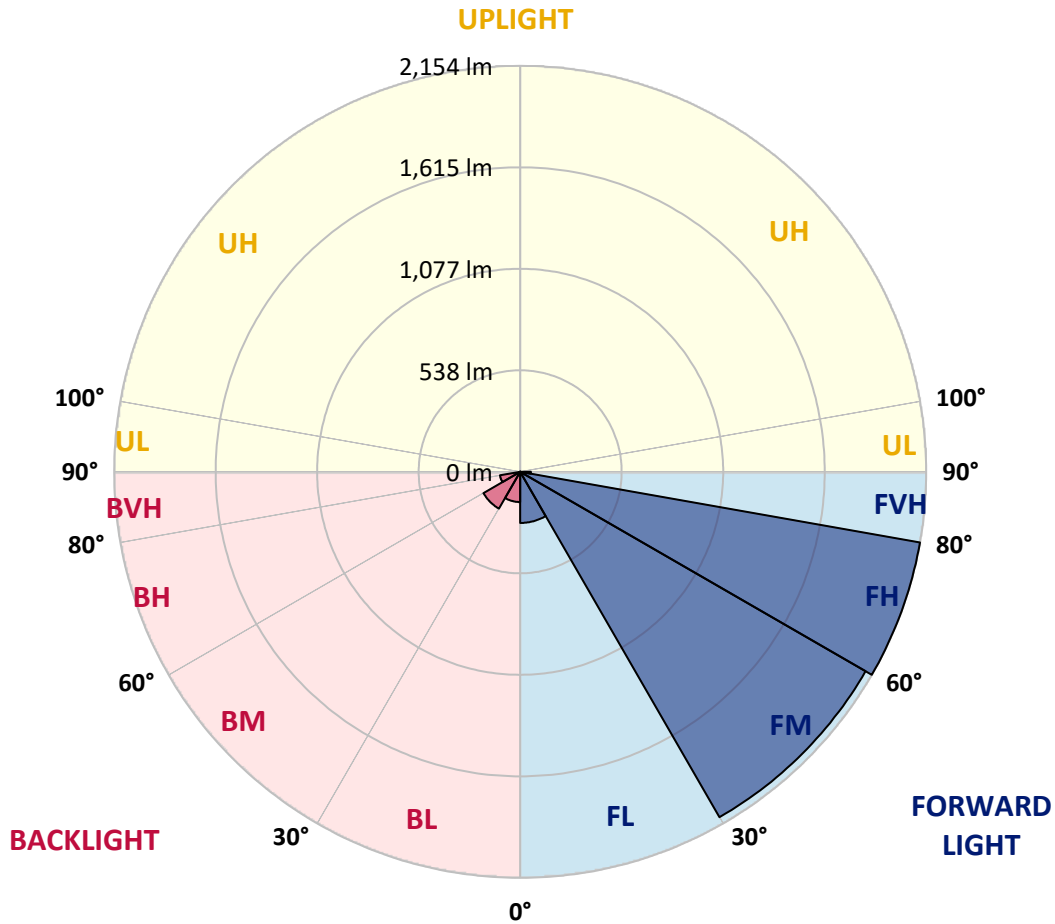
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.3	5.3			
FM (30°-60°)	2115.8	41.5			
FH (60°-80°)	2154.0	42.3			G2/5000
FVH (80°-90°)	56.7	1.1			G1/100
BL (0°-30°)	160.4	3.1	B1/500		
BM (30°-60°)	225.3	4.4	B1/1000		
BH (60°-80°)	109.0	2.1	B0/110		G0/110
BVH (80°-90°)	0.6	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°	45°	55°	58°	65°	75°	85°
0°	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1
2.5°	608.4	605.7	604.8	603.8	604.8	605.7	602.9	605.7	603.8	604.8	606.6
5°	586.5	583.8	582.9	583.8	586.5	591.1	592.9	595.6	595.6	598.4	599.3
7.5°	561.9	560.1	559.2	561.0	566.5	576.5	582.0	585.6	589.3	594.7	600.2
10°	548.3	547.4	546.5	549.2	554.7	563.8	571.1	576.5	590.2	605.7	615.7
12.5°	539.2	539.2	541.0	546.5	553.8	561.0	578.3	585.6	606.6	630.3	643.9
15°	531.9	531.9	534.6	544.6	554.7	572.0	597.5	605.7	630.3	659.4	677.6
17.5°	526.4	528.2	530.1	540.1	559.2	588.4	618.4	630.3	660.3	692.2	712.2
20°	527.3	529.2	530.1	540.1	567.4	607.5	645.7	659.4	694.0	727.7	747.7
22.5°	532.8	535.5	536.4	550.1	582.0	627.5	676.7	692.2	729.5	765.0	780.5
25°	555.6	557.4	551.9	563.8	602.9	658.5	716.8	733.2	770.5	803.3	816.1
27.5°	633.0	634.8	604.8	591.1	619.3	684.0	766.0	788.7	835.2	857.0	858.9
30°	800.6	802.4	743.2	678.5	658.5	705.8	793.3	825.2	885.3	909.9	898.9
32.5°	1016.4	1014.6	933.5	837.9	751.4	744.1	832.4	866.1	931.7	955.4	947.2
35°	1233.2	1235.9	1166.7	1022.8	898.9	816.1	882.5	921.7	1000.9	1034.6	1020.1
37.5°	1381.6	1399.9	1369.8	1214.1	1080.2	949.0	963.6	1005.5	1104.8	1150.3	1119.3
40°	1591.1	1586.6	1513.7	1398.9	1280.5	1145.8	1094.7	1114.8	1228.6	1289.7	1241.4
42.5°	1872.6	1863.4	1739.6	1627.6	1495.5	1385.3	1281.5	1277.8	1370.7	1441.8	1371.6
45°	2127.6	2113.9	2029.2	1920.8	1776.0	1649.4	1509.2	1477.3	1541.9	1602.1	1520.1
47.5°	2330.7	2307.9	2247.8	2190.4	2154.9	1958.2	1747.8	1699.5	1732.3	1776.9	1661.3
50°	2571.1	2508.3	2420.8	2386.2	2460.0	2307.9	1977.3	1930.8	1929.0	1954.5	1807.0
52.5°	2680.4	2566.6	2517.4	2546.5	2676.8	2633.0	2225.0	2158.5	2132.1	2134.9	1942.7
55°	2548.3	2535.6	2562.0	2653.1	2823.4	2797.9	2462.7	2380.8	2341.6	2292.4	2072.9
57.5°	2398.1	2437.2	2542.0	2715.9	3009.2	2970.0	2696.8	2603.9	2532.0	2419.0	2217.7
60°	2259.6	2299.7	2472.7	2730.5	3111.2	3135.8	2891.7	2803.4	2696.8	2548.3	2377.1
62.5°	2049.2	2080.2	2323.4	2709.6	3066.6	3232.3	3027.4	2960.9	2861.7	2671.3	2560.2
65°	1812.4	1832.5	2072.9	2542.0	2979.1	3221.4	3139.4	3102.1	3005.6	2799.7	2741.4
67.5°	1552.9	1576.5	1776.9	2240.5	2807.9	3170.4	3245.1	3241.4	3131.2	2941.8	2872.6
70°	1254.1	1256.0	1421.7	1858.0	2509.2	3068.4	3376.2	3384.4	3251.5	3048.4	2878.0
72.5°	600.2	649.4	921.7	1296.9	2039.2	2868.0	3461.8	3502.8	3327.1	3044.7	2567.5
75°	137.5	142.1	268.7	616.6	1195.8	2201.3	3247.8	3324.3	3143.1	2633.0	1808.8
77.5°	50.1	52.8	75.6	180.3	459.9	1137.6	2324.3	2436.3	2323.4	1702.2	855.2
80°	33.7	32.8	39.2	80.1	211.3	322.4	1188.6	1255.0	1145.8	581.1	204.9
82.5°	17.3	18.2	27.3	44.6	142.1	112.0	397.1	431.7	355.2	116.6	38.3
85°	8.2	8.2	15.5	28.2	60.1	39.2	88.3	106.6	95.6	51.0	12.8
87.5°	8.2	8.2	14.6	18.2	31.0	16.4	21.9	27.3	25.5	27.3	4.6
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°	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1	611.1
2.5°	606.6	605.7	604.8	606.6	605.7	607.5	607.5	609.3	609.3	607.5	606.6
5°	598.4	596.6	594.7	594.7	593.8	595.6	601.1	605.7	606.6	603.8	602.9
7.5°	599.3	599.3	597.5	593.8	587.4	587.4	587.4	592.9	595.6	593.8	592.9
10°	615.7	616.6	612.0	603.8	592.9	582.9	563.8	535.5	509.1	501.8	499.1
12.5°	643.9	644.8	635.7	621.1	598.4	539.2	466.3	398.9	347.0	332.4	329.7
15°	677.6	678.5	662.1	638.5	569.2	431.7	323.3	246.8	201.3	190.4	189.4
17.5°	712.2	710.4	685.8	640.3	482.7	306.0	196.7	157.6	145.7	143.0	143.9
20°	745.9	740.5	706.8	606.6	371.6	200.4	143.9	134.8	132.1	130.2	130.2
22.5°	776.9	766.0	724.1	540.1	260.5	143.9	128.4	126.6	123.0	120.2	119.3
25°	807.9	792.4	735.0	453.6	174.9	125.7	121.1	117.5	112.9	109.3	108.4
27.5°	845.2	823.3	729.5	344.3	131.2	116.6	112.9	107.5	101.1	95.6	93.8
30°	880.7	856.1	698.6	237.7	112.0	107.5	102.0	93.8	85.6	79.2	77.4
32.5°	925.3	897.1	643.0	155.7	97.5	93.8	88.3	78.3	67.4	60.1	58.3
35°	989.1	957.2	572.0	109.3	85.6	79.2	72.0	61.0	49.2	43.7	42.8
37.5°	1078.4	1035.5	482.7	88.3	75.6	66.5	55.6	44.6	36.4	31.9	31.0
40°	1187.6	1122.1	383.4	78.3	67.4	55.6	41.9	31.9	26.4	22.8	22.8
42.5°	1306.0	1203.1	282.3	72.0	59.2	45.5	31.0	22.8	19.1	17.3	16.4
45°	1428.1	1275.1	190.4	66.5	51.9	34.6	21.9	15.5	12.8	12.8	11.8
47.5°	1554.7	1323.4	123.0	60.1	43.7	25.5	14.6	10.9	9.1	9.1	9.1
50°	1680.4	1348.9	87.4	54.6	35.5	17.3	10.9	8.2	7.3	7.3	7.3
52.5°	1771.5	1332.5	70.1	47.4	27.3	12.8	8.2	6.4	5.5	5.5	5.5
55°	1850.7	1304.2	61.0	41.0	20.0	9.1	6.4	5.5	4.6	4.6	4.6
57.5°	1931.8	1267.8	54.6	34.6	14.6	6.4	4.6	3.6	3.6	3.6	3.6
60°	2005.5	1205.9	47.4	27.3	10.0	4.6	3.6	2.7	2.7	2.7	2.7
62.5°	2077.5	1153.0	41.0	20.9	7.3	3.6	1.8	1.8	0.9	0.9	0.9
65°	2118.5	1082.0	32.8	13.7	4.6	2.7	0.9	0.9	0.0	0.0	0.0
67.5°	2105.7	997.3	22.8	8.2	2.7	1.8	0.9	0.0	0.0	0.0	0.0
70°	2017.4	883.5	13.7	4.6	2.7	1.8	0.9	0.0	0.0	0.0	0.0
72.5°	1689.5	653.9	8.2	3.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	1128.4	300.6	4.6	2.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	516.4	90.2	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	103.8	23.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.9	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.9	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)