

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: P381308

Luminaire Tested: **PRV-PA1A-730-U-T4W-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381308
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-730-U-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 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: 4936 lumens
Efficiency: N/A
Efficacy: 91.4 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

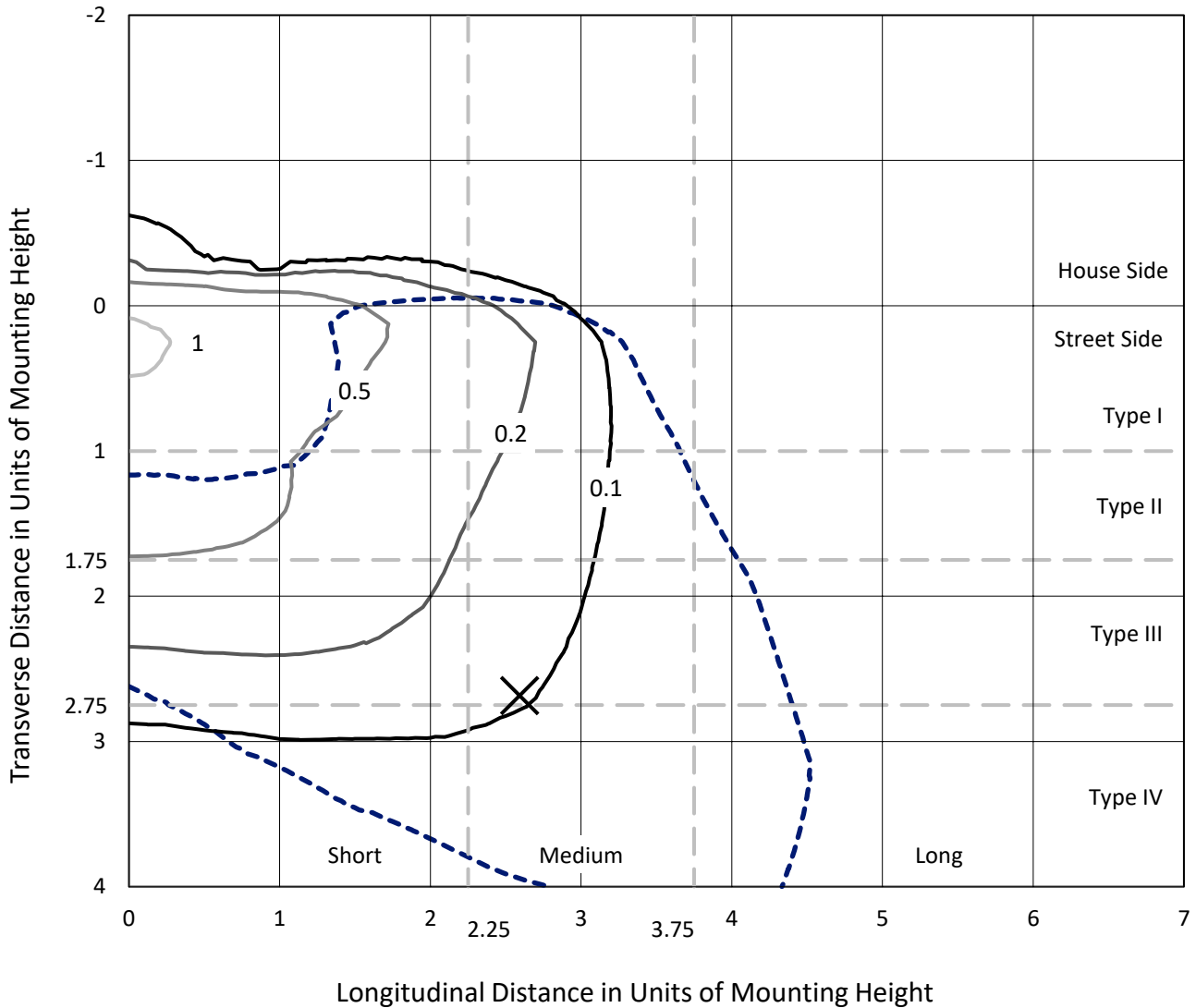
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P381308
 CATALOG NUMBER: PRV-PA1A-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

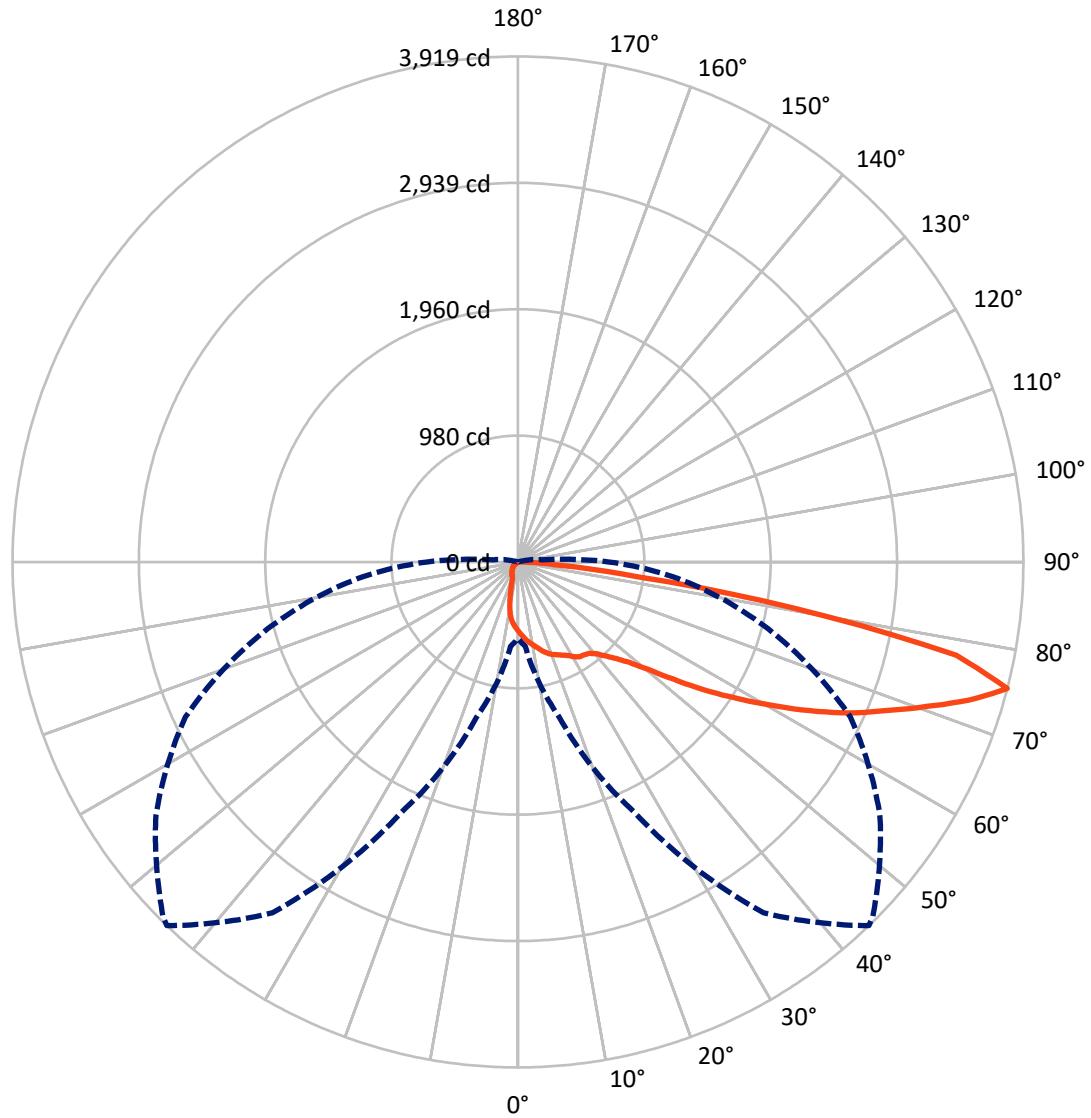
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P381308
CATALOG NUMBER: PRV-PA1A-730-U-T4W-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: PRV-PA1A-730-U-T4W-HSS

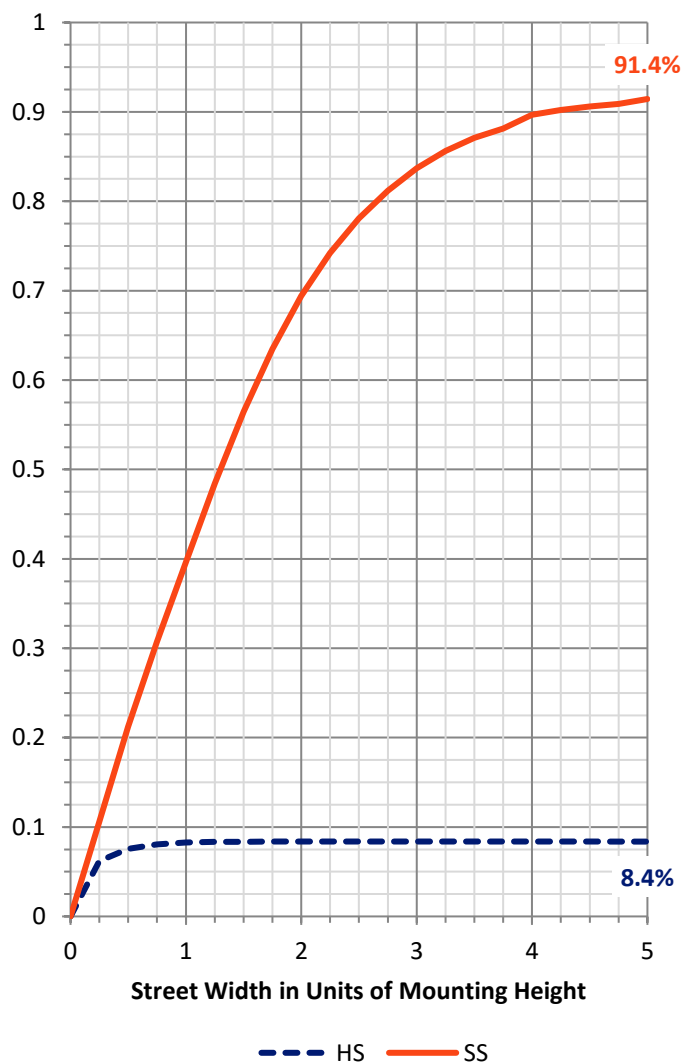
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	416.3	0.0	416.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4519.7	0.0	4519.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	4936.0	0.0	4936.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	1.0
10°-20°	142.0	2.9
20°-30°	234.3	4.7
30°-40°	340.1	6.9
40°-50°	552.8	11.2
50°-60°	974.5	19.7
60°-70°	1400.6	28.4
70°-80°	1121.6	22.7
80°-90°	119.5	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°	4936.0	100.0
0°-180°	4936.0	100.0

Coefficient of Utilization



REPORT NUMBER: P381308

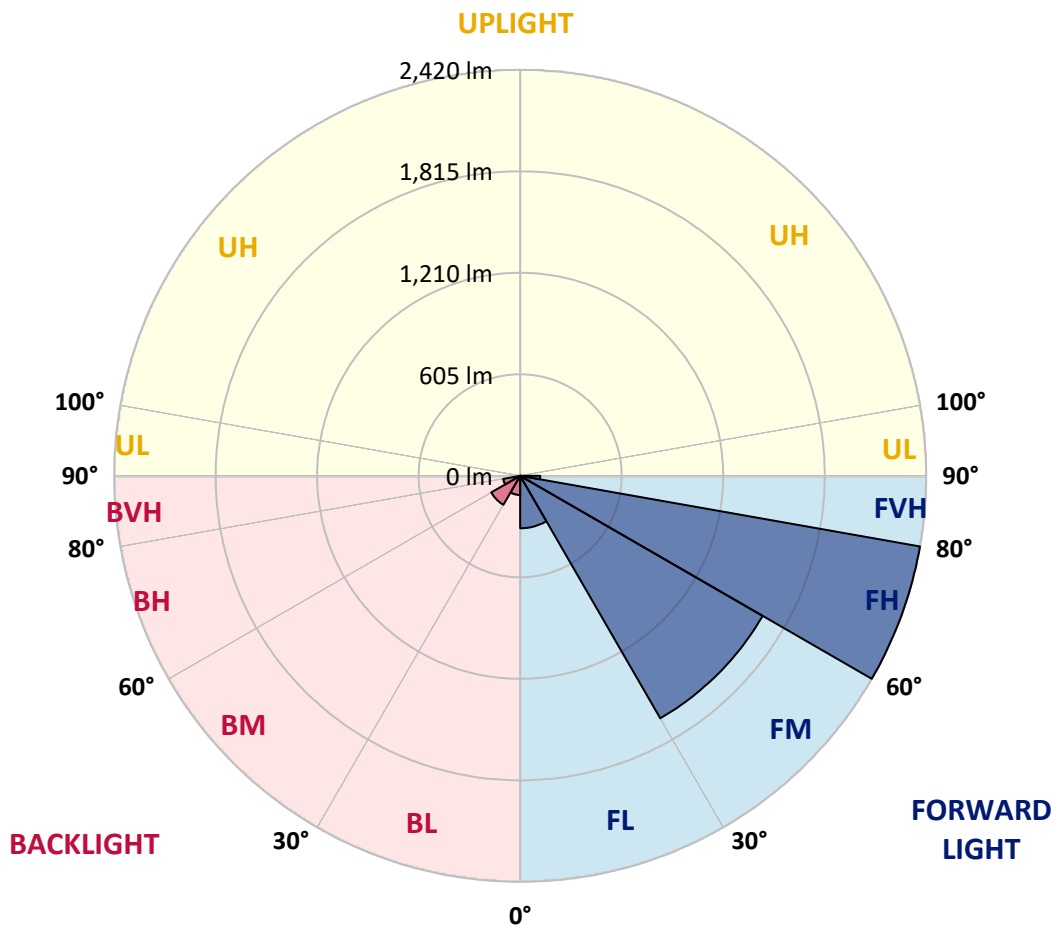
CATALOG NUMBER: PRV-PA1A-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	312.6	6.3			
FM (30°-60°)	1668.4	33.8			
FH (60°-80°)	2419.5	49.0			G2/5000
FVH (80°-90°)	119.2	2.4			G2/225
BL (0°-30°)	114.4	2.3	B1/500		
BM (30°-60°)	199.0	4.0	B0/220		
BH (60°-80°)	102.6	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: B1-U0-G2

Type IV Medium





REPORT NUMBER: P381308

CATALOG NUMBER: PRV-PA1A-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	537.3	537.3	537.3	537.3	537.3	537.3	537.3	537.3	537.3	537.3	537.3
2.5°	585.5	584.6	581.9	577.3	572.8	568.2	567.3	560.0	551.8	545.5	540.0
5°	637.4	636.5	632.0	622.0	611.9	600.1	599.2	581.9	566.4	549.1	534.5
7.5°	691.2	689.3	681.1	665.7	648.4	630.1	628.3	602.8	580.1	557.3	536.4
10°	733.0	731.2	719.4	701.2	677.5	654.7	652.0	625.6	602.8	573.7	545.5
12.5°	774.0	770.4	754.9	734.9	705.7	683.9	681.1	653.8	626.5	596.5	561.9
15°	812.3	807.7	793.1	767.7	736.7	715.7	713.9	684.8	656.6	622.0	583.7
17.5°	838.7	836.9	819.6	791.3	761.3	744.0	742.2	712.1	683.9	647.4	606.5
20°	852.3	852.3	835.9	805.0	777.7	765.8	763.1	734.9	707.6	672.9	630.1
22.5°	855.1	857.8	845.1	811.4	791.3	781.3	779.5	754.9	728.5	696.6	656.6
25°	860.5	860.5	854.2	817.7	803.2	800.4	799.5	777.7	754.0	722.1	683.0
27.5°	866.9	866.9	862.4	826.8	821.4	820.5	819.6	809.5	790.4	753.1	713.9
30°	883.3	884.2	880.6	845.1	841.4	851.4	853.2	847.8	824.1	777.7	745.8
32.5°	924.3	916.1	906.1	857.8	864.2	876.9	877.8	866.9	841.4	804.1	784.0
35°	1027.2	978.9	933.4	868.7	871.5	884.2	886.0	885.1	869.6	837.8	827.8
37.5°	1122.8	1054.5	989.8	894.2	885.1	898.8	902.4	917.9	906.1	884.2	886.9
40°	1178.3	1151.9	1106.4	964.3	912.4	933.4	937.0	960.7	956.1	947.0	964.3
42.5°	1349.5	1351.4	1302.2	1069.1	962.5	996.2	1000.8	1019.9	1026.3	1030.8	1072.7
45°	1548.1	1554.4	1542.6	1257.6	1057.2	1068.2	1074.5	1100.0	1123.7	1152.8	1229.3
47.5°	1786.6	1781.2	1737.5	1488.0	1222.0	1161.0	1165.6	1214.8	1255.7	1319.5	1428.8
50°	1997.9	2011.6	1928.7	1702.9	1454.3	1307.6	1303.1	1351.4	1425.1	1514.4	1651.9
52.5°	2211.0	2190.9	2078.9	1915.9	1729.3	1507.1	1493.4	1519.8	1623.6	1729.3	1870.4
55°	2267.4	2269.3	2231.0	2149.1	1958.7	1749.3	1726.5	1724.7	1854.0	1926.0	2099.9
57.5°	2378.5	2383.1	2392.2	2408.6	2318.4	1991.5	1967.8	1942.3	2068.0	2109.9	2330.3
60°	2491.5	2496.9	2552.5	2640.8	2580.7	2252.9	2227.4	2167.3	2237.4	2293.8	2572.5
62.5°	2476.9	2515.1	2676.3	2852.1	2844.8	2539.7	2507.8	2363.1	2407.7	2456.8	2794.7
65°	2236.5	2277.5	2639.9	2910.3	3109.8	2822.9	2771.0	2565.2	2567.9	2627.1	3008.7
67.5°	2021.6	2066.2	2412.2	2885.7	3284.6	3077.0	3023.3	2768.3	2725.5	2823.8	3123.4
70°	1897.7	1942.3	2231.0	2809.3	3333.8	3358.4	3311.9	3000.5	2913.1	3003.2	2995.0
72.5°	1485.2	1555.3	1999.7	2663.6	3386.6	3659.8	3623.4	3294.6	3072.4	2815.6	2280.2
75°	591.9	656.6	1248.5	2143.6	3320.1	3919.3	3891.1	3426.7	2843.9	2010.6	1167.4
77.5°	178.5	191.2	346.9	1060.0	2434.1	3474.9	3465.8	2881.2	2012.5	933.4	318.7
80°	59.2	65.6	106.5	292.3	1111.0	2170.9	2211.9	1835.8	914.3	214.0	64.7
82.5°	24.6	27.3	53.7	117.5	393.4	935.2	921.5	822.3	318.7	133.0	23.7
85°	6.4	8.2	24.6	67.4	143.9	322.4	338.8	275.9	180.3	110.2	7.3
87.5°	0.0	0.0	11.8	27.3	64.7	97.4	102.0	83.8	102.0	82.9	3.6
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: P381308
 CATALOG NUMBER: PRV-PA1A-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	537.3	537.3	537.3	537.3	537.3	537.3	537.3	537.3	537.3	537.3	537.3
2.5°	535.4	530.9	522.7	517.2	509.9	508.1	504.5	499.9	499.0	494.5	495.4
5°	526.3	519.1	504.5	494.5	482.6	479.0	472.6	468.1	464.4	458.0	459.0
7.5°	524.5	513.6	493.6	474.4	455.3	441.6	422.5	407.0	394.3	380.6	383.4
10°	530.9	517.2	489.0	462.6	428.0	384.3	334.2	301.4	285.0	268.6	270.5
12.5°	543.6	527.2	490.8	450.8	380.6	306.0	236.8	192.1	180.3	173.0	173.9
15°	562.8	542.7	496.3	428.0	316.9	221.3	157.5	138.4	143.0	145.7	145.7
17.5°	582.8	560.0	500.8	387.0	245.0	154.8	128.4	126.6	133.0	139.3	139.3
20°	607.4	578.2	501.8	335.1	176.7	125.7	121.1	121.1	125.7	133.0	133.0
22.5°	631.1	598.3	493.6	275.9	134.8	116.6	116.6	116.6	119.3	126.6	127.5
25°	659.3	622.9	476.3	213.1	115.6	111.1	111.1	112.0	113.8	120.2	121.1
27.5°	689.3	648.4	447.1	155.7	105.6	104.7	105.6	106.5	107.5	113.8	115.6
30°	723.9	676.6	409.8	116.6	96.5	96.5	99.3	101.1	101.1	106.5	108.4
32.5°	764.0	713.9	365.2	96.5	87.4	86.5	91.1	93.8	93.8	98.3	100.2
35°	814.1	752.2	311.4	85.6	80.1	78.3	80.1	84.7	86.5	90.2	91.1
37.5°	880.6	797.7	254.1	79.2	74.7	71.0	71.0	71.9	75.6	79.2	80.1
40°	965.3	847.8	197.6	74.7	69.2	65.6	62.8	61.9	61.0	63.7	65.6
42.5°	1071.8	904.2	147.5	70.1	64.7	59.2	55.5	51.9	47.4	46.4	47.4
45°	1208.4	973.5	109.3	66.5	61.9	53.7	47.4	41.0	32.8	30.1	31.0
47.5°	1369.6	1045.4	85.6	62.8	60.1	47.4	39.2	28.2	20.0	18.2	19.1
50°	1540.8	1114.6	72.8	58.3	56.5	41.0	28.2	17.3	11.8	11.8	12.7
52.5°	1686.5	1153.8	66.5	54.6	51.0	33.7	18.2	10.0	7.3	7.3	8.2
55°	1827.6	1174.7	61.9	51.0	43.7	23.7	10.0	6.4	4.6	4.6	4.6
57.5°	1973.3	1183.8	56.5	46.4	34.6	14.6	5.5	3.6	2.7	2.7	2.7
60°	2102.6	1166.5	48.3	38.2	22.8	7.3	2.7	2.7	1.8	0.9	0.9
62.5°	2211.0	1133.7	33.7	27.3	13.7	3.6	1.8	0.9	0.0	0.0	0.0
65°	2277.5	1080.9	21.9	18.2	8.2	2.7	0.9	0.0	0.0	0.0	0.0
67.5°	2258.3	981.6	13.7	11.8	3.6	1.8	0.9	0.0	0.0	0.0	0.0
70°	2038.0	805.0	10.0	7.3	2.7	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	1468.8	544.5	7.3	4.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	706.6	194.0	4.6	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	173.0	42.8	2.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	38.2	8.2	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.7	3.6	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°	2.7	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)