

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: P622471

Luminaire Tested: **PRV-M-C225-D-U-T4-BZ-7050-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-C225-D-U-T4-BZ-7050-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55580 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

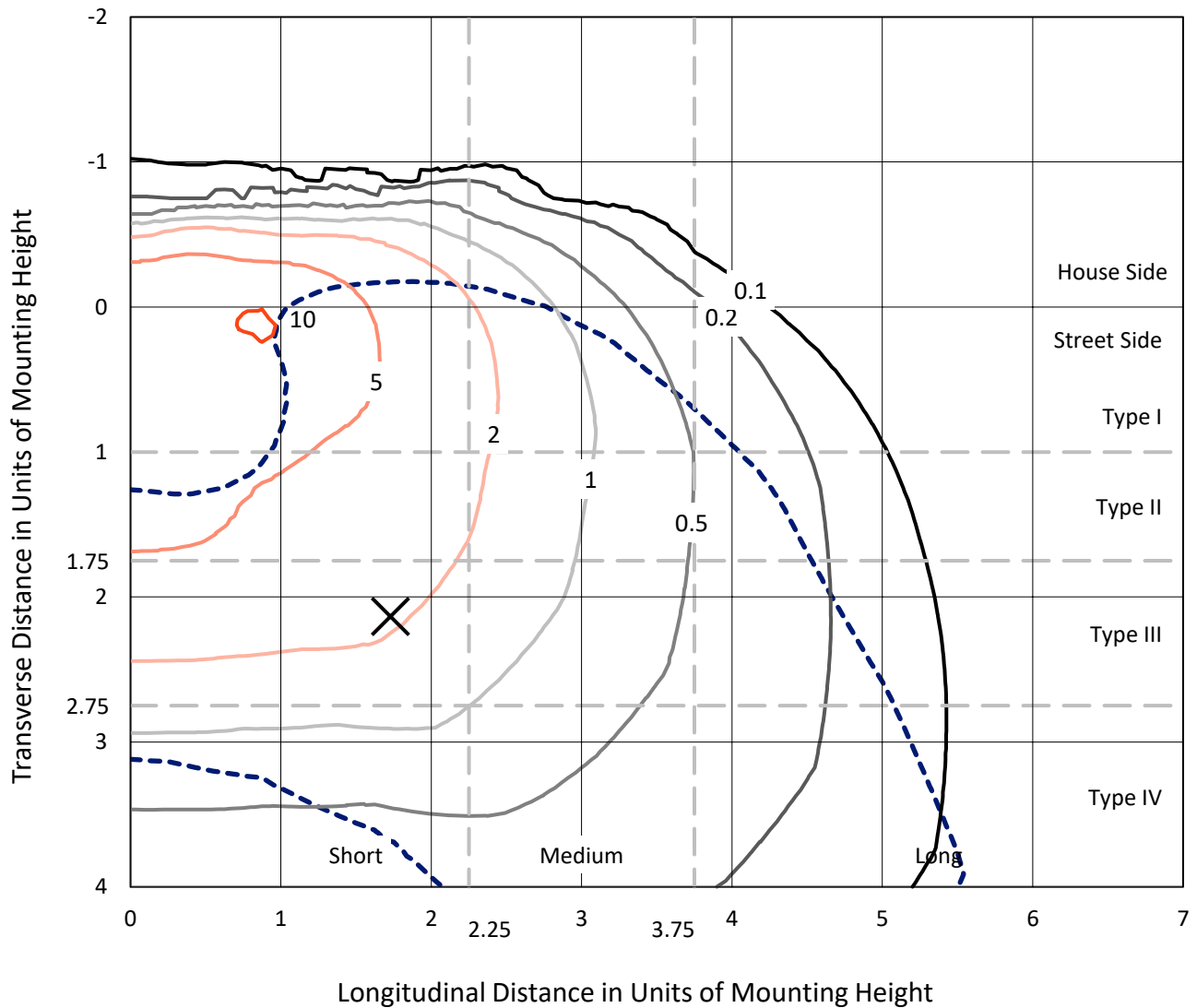
Input Watts (W): 418.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

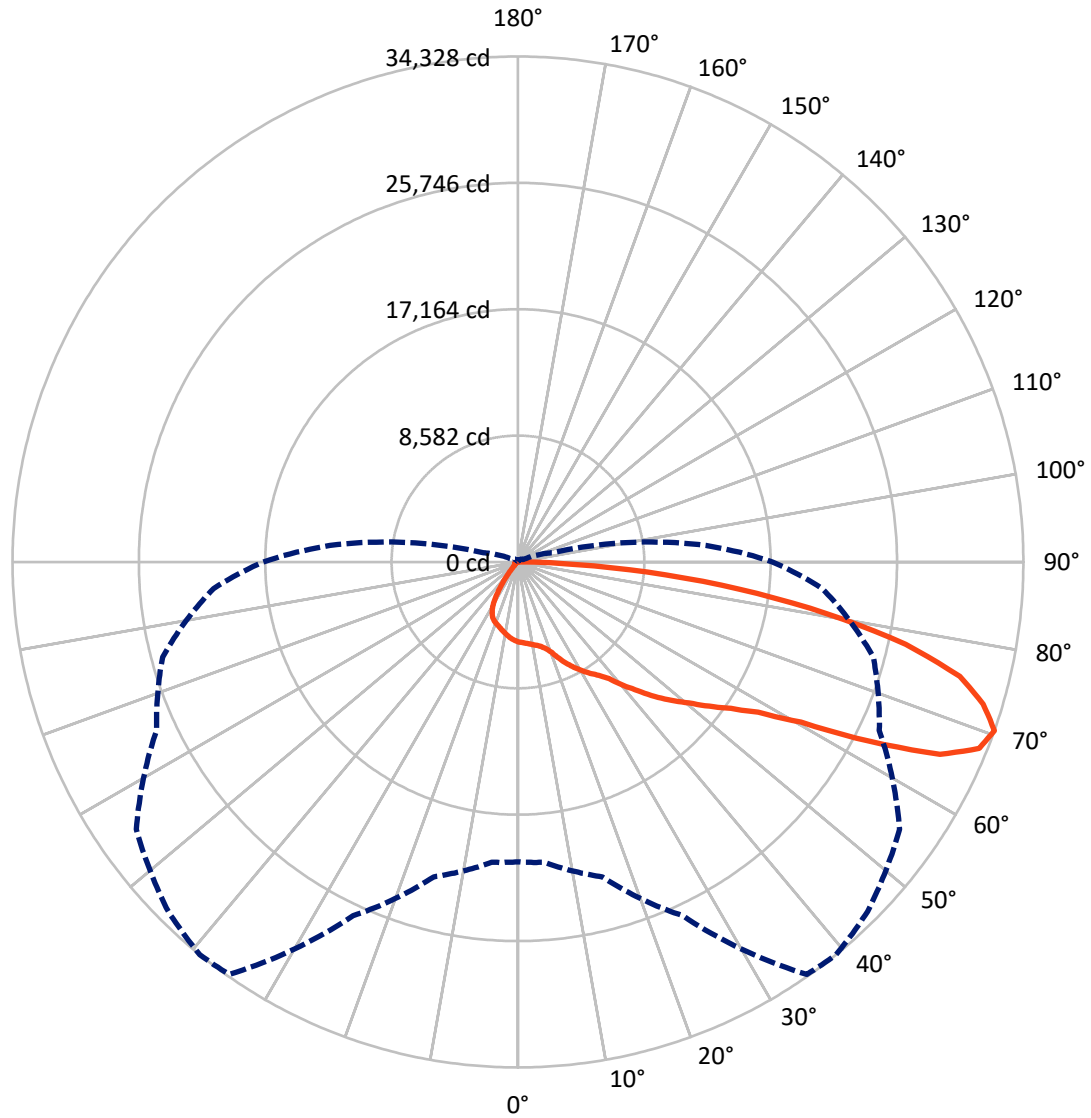
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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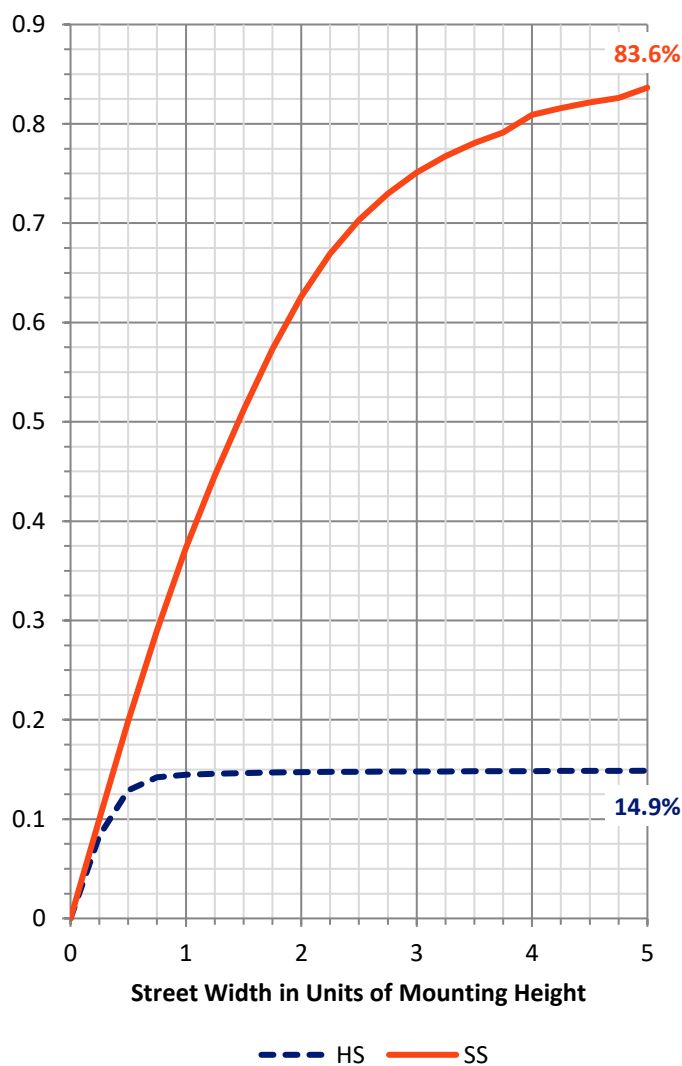
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8357.4	0.0	8357.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	47222.6	0.0	47222.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	55580.0	0.0	55580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.0	0.9
10°-20°	1557.6	2.8
20°-30°	2872.5	5.2
30°-40°	4543.2	8.2
40°-50°	7122.2	12.8
50°-60°	10515.0	18.9
60°-70°	14418.5	25.9
70°-80°	11536.6	20.8
80°-90°	2498.4	4.5
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°	55580.0	100.0
0°-180°	55580.0	100.0

Coefficient of Utilization



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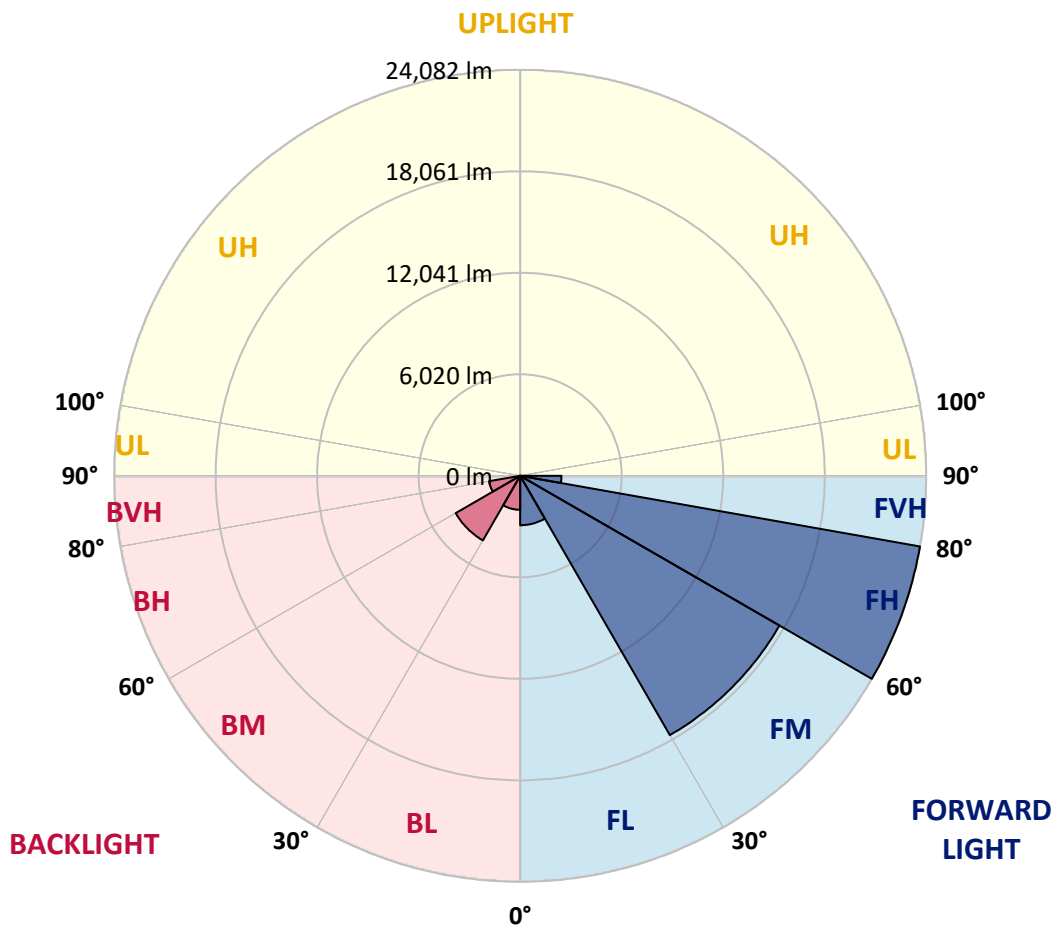
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2931.3	5.3			
FM (30°-60°)	17760.2	32.0			
FH (60°-80°)	24081.9	43.3			G5
FVH (80°-90°)	2449.2	4.4			G5
BL (0°-30°)	2014.7	3.6	B3/2500		
BM (30°-60°)	4420.2	8.0	B3/5000		
BH (60°-80°)	1873.3	3.4	B3/2500		G3/2500
BVH (80°-90°)	49.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5430.8	5430.8	5430.8	5430.8	5430.8	5430.8	5430.8	5430.8	5430.8	5430.8	5430.8
2.5°	5519.8	5511.4	5537.8	5506.6	5498.2	5470.5	5472.9	5486.1	5497.0	5474.1	5471.7
5°	5585.9	5583.5	5601.6	5571.5	5565.5	5542.6	5534.2	5547.5	5551.1	5516.2	5500.6
7.5°	5649.6	5647.2	5672.5	5637.6	5644.8	5617.2	5606.4	5617.2	5622.0	5579.9	5563.1
10°	5691.7	5689.3	5717.0	5700.1	5730.2	5713.4	5709.8	5727.8	5742.2	5680.9	5654.5
12.5°	5750.6	5749.4	5784.3	5777.1	5822.8	5813.2	5830.0	5866.1	5888.9	5832.4	5786.7
15°	5845.6	5856.4	5888.9	5894.9	5958.6	5964.7	5991.1	6050.0	6086.1	6028.4	5986.3
17.5°	6113.7	6094.5	6140.2	6143.8	6171.5	6189.5	6209.9	6303.7	6356.6	6322.9	6292.9
20°	6630.7	6627.1	6625.9	6599.5	6585.0	6558.6	6565.8	6616.3	6696.9	6701.7	6708.9
22.5°	7280.0	7307.6	7295.6	7215.1	7120.1	7093.6	7060.0	7052.7	7104.4	7134.5	7176.6
25°	7914.8	7895.6	7922.0	7754.9	7651.5	7615.4	7598.6	7620.2	7644.3	7679.1	7746.5
27.5°	8384.9	8362.1	8340.4	8227.4	8138.4	8100.0	8113.2	8193.7	8283.9	8303.1	8411.4
30°	8790.1	8748.0	8721.5	8663.8	8602.5	8556.8	8570.1	8757.6	8992.1	9075.0	9272.2
32.5°	9499.4	9475.4	9338.3	9043.8	9020.9	9013.7	9026.9	9334.7	9699.0	9935.9	10253.3
35°	10317.0	10291.8	10160.7	9867.3	9492.2	9450.1	9507.9	9855.3	10452.9	11061.2	11566.2
37.5°	11207.9	11219.9	11104.5	10735.4	10273.7	10056.1	9991.2	10451.7	11219.9	12494.4	12993.4
40°	12413.8	12351.3	12096.4	11587.9	11213.9	11010.7	10688.5	11067.3	12166.2	14027.3	14636.9
42.5°	13350.4	13352.8	13072.7	12568.9	12067.6	11951.0	11736.9	11877.6	13304.8	15777.9	16132.6
45°	14098.3	14164.4	13994.9	13517.6	13178.5	13028.2	12858.7	13159.3	14668.2	17499.6	17534.5
47.5°	14790.8	14836.5	14670.6	14361.6	14123.5	14037.0	14111.5	14700.6	16112.1	19026.5	18718.7
50°	15909.0	15848.8	15259.7	15038.5	14972.4	15043.3	15345.1	16196.3	18080.3	20365.9	19864.5
52.5°	17836.3	17464.7	16409.1	16048.4	16088.1	16274.5	16611.1	17585.0	19998.0	21616.3	20749.4
55°	20486.1	19954.7	18631.0	17560.9	17337.3	17547.7	17930.0	18921.9	21726.9	22681.6	21467.2
57.5°	22288.4	22183.8	21605.5	20321.4	18996.5	19244.2	19513.5	20387.6	23075.9	23710.7	22079.2
60°	24000.5	24078.6	24521.1	23856.2	22506.0	22097.2	21407.1	21910.9	24354.0	24568.0	22485.6
62.5°	25351.9	25480.5	26704.5	26753.8	27532.9	26827.1	24937.1	23630.2	25499.8	25133.1	22623.8
65°	25276.1	25339.9	27148.1	28419.0	31239.6	31498.1	30232.1	25996.3	26667.2	25415.6	22484.4
67.5°	23137.2	23364.5	25012.8	28235.0	33427.8	33788.5	33138.0	29930.3	27334.5	25378.3	21931.3
70°	20371.9	20471.7	22135.7	26509.7	34193.7	34328.3	33580.5	31642.4	27078.4	24985.2	20754.3
72.5°	16724.1	16952.6	18564.9	23059.1	33121.2	33039.5	32613.8	31279.3	26586.7	23905.5	18176.5
75°	12995.8	13148.5	14629.7	18837.8	30309.0	30990.7	30675.7	30056.5	25109.0	21137.8	13533.2
77.5°	8804.5	9218.1	10647.6	14546.7	25187.2	26928.1	27902.0	27406.6	21617.5	16012.4	7830.6
80°	4995.6	4869.4	6708.9	10149.9	19322.3	21314.5	22687.6	21995.0	15405.2	8567.7	2064.4
82.5°	1591.9	1769.8	3156.1	6157.0	13641.4	15174.3	16184.3	14389.2	7786.2	2232.7	424.4
85°	723.8	779.1	1304.5	3008.2	7989.3	8793.7	8857.4	6348.2	1252.8	443.7	264.5
87.5°	303.0	303.0	618.0	1349.0	3445.8	2796.6	1767.4	1813.1	253.7	200.8	138.3
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°	5430.8	5430.8	5430.8	5430.8	5430.8	5430.8	5430.8	5430.8	5430.8	5430.8	5430.8
2.5°	5447.7	5445.3	5432.0	5390.0	5355.1	5345.5	5345.5	5321.4	5326.2	5329.8	5307.0
5°	5471.7	5464.5	5422.4	5352.7	5284.1	5240.9	5225.2	5184.4	5172.3	5154.3	5138.7
7.5°	5517.4	5497.0	5426.0	5325.0	5219.2	5142.3	5084.6	5008.8	4969.1	4955.9	4922.3
10°	5610.0	5573.9	5471.7	5323.8	5165.1	5023.2	4910.2	4799.6	4732.3	4680.6	4657.7
12.5°	5737.4	5692.9	5563.1	5363.5	5130.3	4918.6	4734.7	4578.4	4475.0	4414.9	4399.2
15°	5929.8	5879.3	5711.0	5447.7	5124.2	4823.7	4561.6	4321.1	4174.4	4063.8	4042.2
17.5°	6235.2	6195.5	5967.1	5602.8	5184.4	4770.8	4381.2	4022.9	3762.0	3640.6	3591.3
20°	6656.0	6604.3	6336.2	5842.0	5309.4	4747.9	4206.9	3706.7	3325.6	3071.9	3007.0
22.5°	7153.7	7076.8	6726.9	6101.7	5424.8	4713.1	4041.0	3391.7	2850.7	2443.1	2397.4
25°	7735.7	7647.9	7084.0	6308.5	5471.7	4624.1	3819.7	3031.0	2266.4	1833.5	1809.5
27.5°	8381.3	8185.3	7438.7	6468.4	5435.6	4444.9	3495.1	2485.2	1635.1	1300.9	1244.4
30°	9138.8	8805.7	7774.1	6565.8	5328.6	4163.6	3031.0	1760.2	1084.5	839.2	832.0
32.5°	9953.9	9492.2	8109.6	6585.0	5127.8	3775.3	2286.8	1113.3	618.0	483.3	489.3
35°	11114.1	10403.6	8475.1	6537.0	4805.6	3203.0	1507.7	634.8	342.7	304.2	288.6
37.5°	12406.6	11526.5	8874.2	6359.0	4325.9	2413.0	900.5	309.0	252.5	241.7	238.1
40°	13921.5	12767.3	9338.3	6092.1	3707.9	1656.8	423.2	242.9	230.8	224.8	224.8
42.5°	15327.0	14040.6	9933.5	5736.2	2991.3	965.5	281.3	233.2	208.0	205.6	206.8
45°	16597.9	15146.7	10474.5	5320.2	2249.5	486.9	271.7	208.0	185.2	185.2	185.2
47.5°	17726.8	16062.8	10865.3	4796.0	1541.4	322.2	271.7	190.0	168.3	167.1	168.3
50°	18671.9	16833.5	11116.5	4222.5	907.7	301.8	248.9	180.3	152.7	156.3	156.3
52.5°	19401.7	17385.4	11149.0	3513.1	497.8	294.6	236.9	167.1	139.5	159.9	164.7
55°	19987.2	17747.3	10961.5	2698.0	364.3	276.5	232.0	155.1	138.3	181.5	190.0
57.5°	20356.3	17909.6	10511.8	1831.1	337.8	253.7	216.4	141.9	131.1	161.1	167.1
60°	20543.9	17853.1	9834.9	1147.0	330.6	247.7	199.6	135.9	116.6	116.6	117.8
62.5°	20503.0	17540.5	8906.7	687.7	309.0	238.1	187.6	131.1	97.4	79.4	79.4
65°	20038.9	16844.3	7407.4	492.9	293.4	236.9	179.1	123.8	83.0	61.3	57.7
67.5°	19092.7	15493.0	5174.7	430.4	300.6	236.9	179.1	119.0	78.2	49.3	44.5
70°	17302.4	12823.8	2417.8	394.4	311.4	246.5	182.8	117.8	69.7	38.5	34.9
72.5°	13980.4	8881.5	589.1	319.8	313.8	246.5	197.2	116.6	62.5	30.1	26.5
75°	8989.7	4190.0	419.6	245.3	276.5	236.9	199.6	139.5	66.1	19.2	16.8
77.5°	3593.7	805.5	371.5	171.9	259.7	263.3	216.4	147.9	81.8	9.6	4.8
80°	619.2	375.1	347.5	115.4	214.0	269.3	170.7	122.6	78.2	3.6	0.0
82.5°	349.9	318.6	294.6	70.9	163.5	181.5	104.6	87.8	76.9	3.6	0.0
85°	263.3	264.5	128.6	54.1	78.2	113.0	40.9	25.2	69.7	2.4	0.0
87.5°	152.7	83.0	42.1	32.5	32.5	44.5	15.6	10.8	9.6	2.4	1.2
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)