

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: P622689

Luminaire Tested: **PRV-M-PA6B-8540-U-T4W-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-13)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6B-8540-U-T4W-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES 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: 29696.1 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 365.8
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

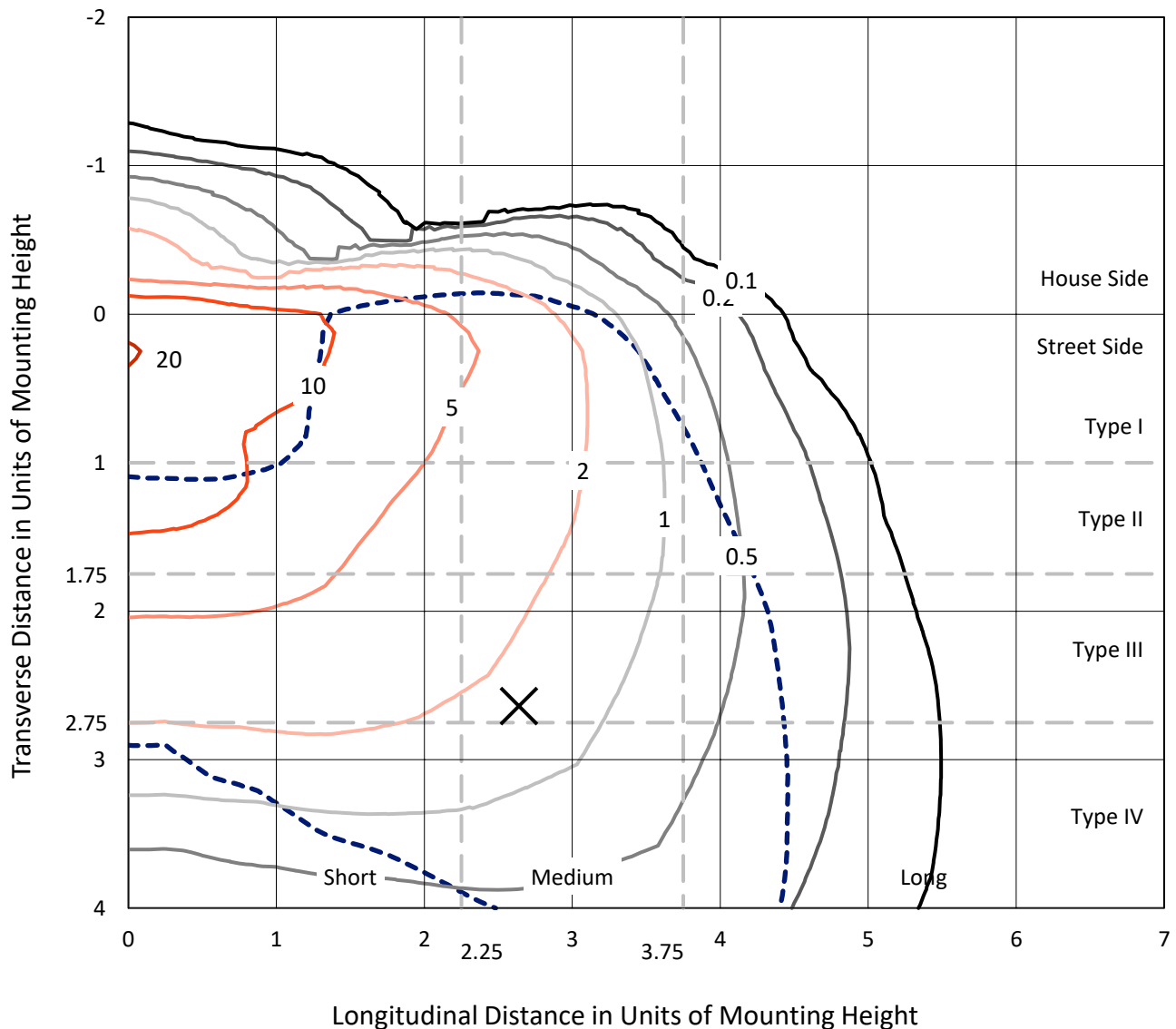


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

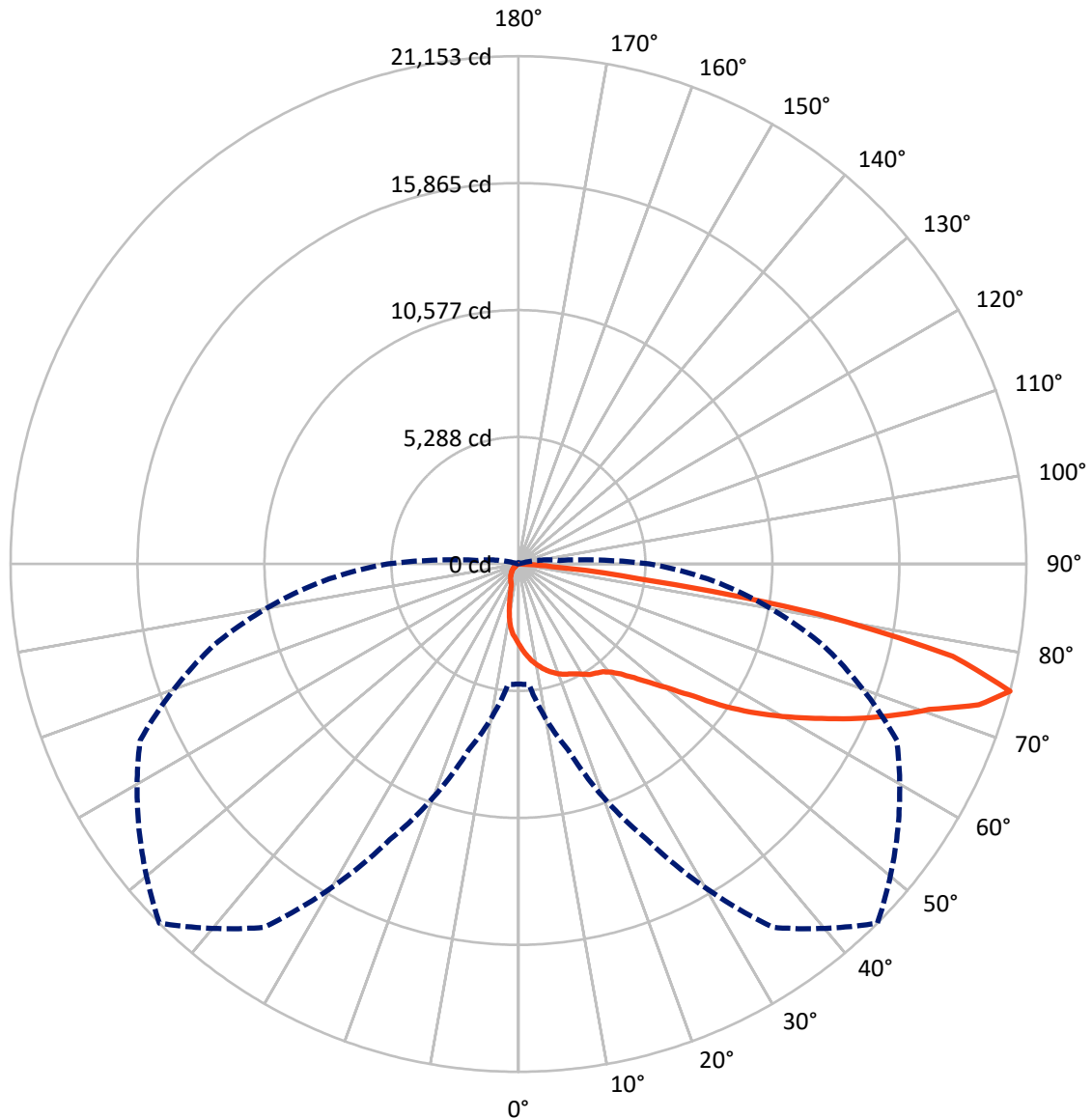


Based on 15 foot mounting height. Maximum calculated value = 20.9 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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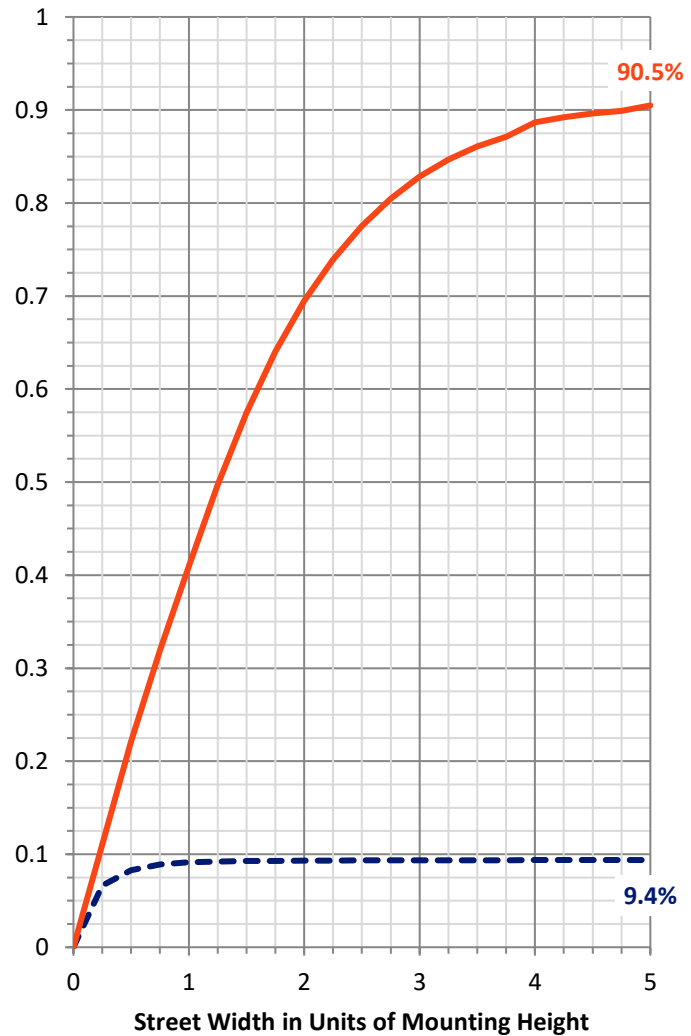
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2806.3	0.0	2806.3
	% Fixture	9.4	0.0	9.4
Street Side	Lumens	26889.8	0.0	26889.8
	% Fixture	90.6	0.0	90.6
Total	Lumens	29696.1	0.0	29696.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.5	1.1
10°-20°	918.5	3.1
20°-30°	1496.8	5.0
30°-40°	2112.4	7.1
40°-50°	3374.9	11.4
50°-60°	5723.0	19.3
60°-70°	8296.0	27.9
70°-80°	6752.8	22.7
80°-90°	702.2	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°	29696.1	100.0
0°-180°	29696.1	100.0

Coefficient of Utilization



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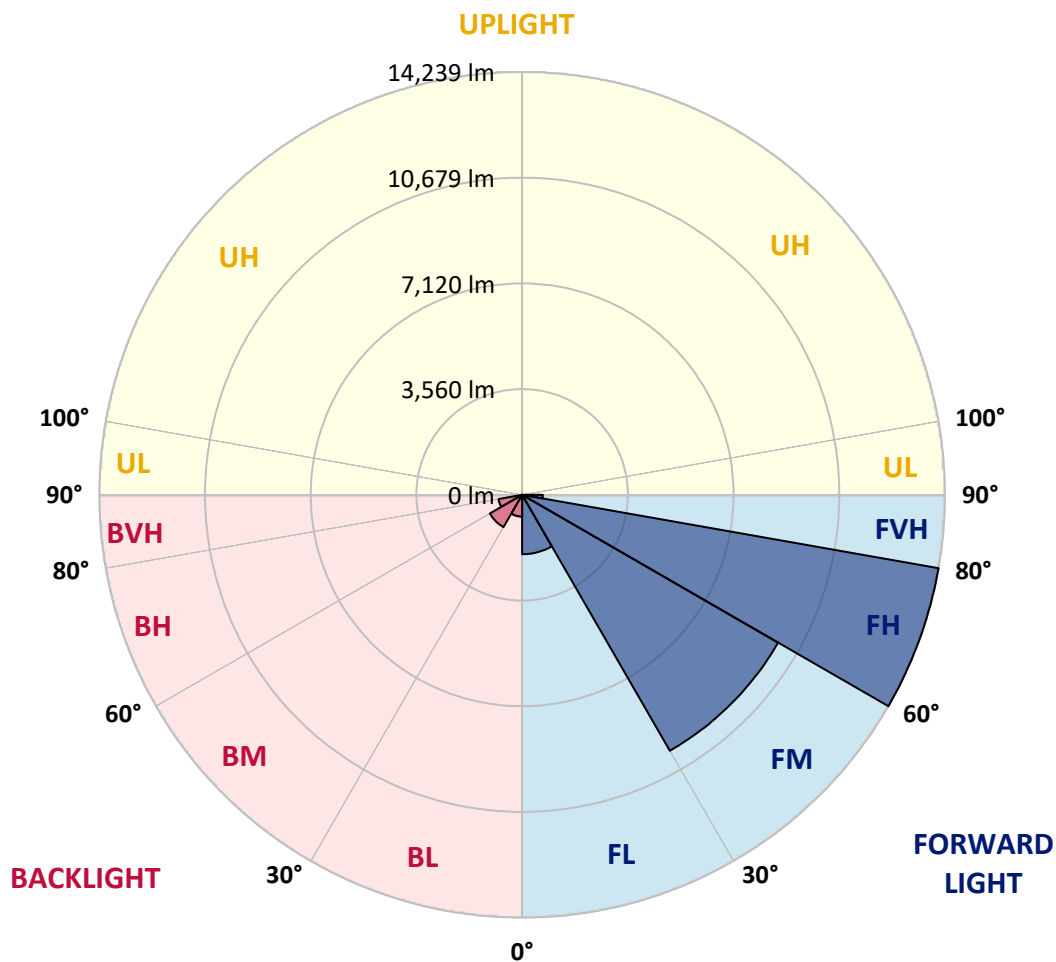
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2001.2	6.7			
FM	(30°-60°)	9954.3	33.5			
FH	(60°-80°)	14239.2	47.9			G5
FVH	(80°-90°)	695.0	2.3			G4/750
BL	(0°-30°)	733.6	2.5	B2/1000		
BM	(30°-60°)	1255.9	4.2	B2/2500		
BH	(60°-80°)	809.6	2.7	B2/1000		G2/1000
BVH	(80°-90°)	7.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3343.3	3343.3	3343.3	3343.3	3343.3	3343.3	3343.3	3343.3	3343.3	3343.3	3343.3
2.5°	3717.4	3719.3	3704.5	3670.8	3632.2	3600.5	3543.2	3486.7	3426.3	3368.0	3342.2
5°	4091.4	4084.5	4055.8	3994.5	3920.2	3849.0	3732.2	3624.3	3500.6	3380.8	3326.4
7.5°	4438.8	4421.0	4375.5	4287.4	4191.4	4073.6	3923.2	3765.8	3594.6	3439.2	3359.1
10°	4740.7	4724.9	4658.5	4543.7	4414.1	4275.5	4108.2	3942.0	3757.9	3557.0	3457.0
12.5°	5003.0	4973.3	4893.1	4747.6	4594.2	4456.7	4286.4	4135.0	3918.2	3703.5	3579.8
15°	5226.6	5194.0	5101.9	4922.8	4743.6	4622.9	4469.5	4319.1	4112.2	3855.9	3713.4
17.5°	5380.1	5349.4	5249.4	5048.5	4866.3	4764.5	4649.6	4501.2	4293.3	4015.2	3855.9
20°	5430.5	5396.8	5313.8	5108.8	4945.6	4891.1	4793.1	4667.5	4464.6	4178.6	4007.3
22.5°	5382.0	5349.4	5292.0	5103.9	4990.1	4986.1	4920.8	4819.8	4625.9	4337.9	4152.8
25°	5313.8	5283.1	5235.5	5075.2	5018.8	5072.3	5040.6	4956.5	4796.1	4508.1	4327.0
27.5°	5287.0	5253.4	5210.8	5079.2	5076.2	5180.1	5181.1	5119.7	4969.3	4685.2	4496.2
30°	5331.5	5293.9	5246.4	5134.6	5171.2	5329.6	5375.1	5305.8	5131.6	4849.6	4669.4
32.5°	5443.4	5376.1	5317.7	5216.7	5277.1	5483.0	5554.2	5445.4	5260.3	5017.8	4859.5
35°	5635.4	5531.4	5434.5	5324.6	5372.1	5580.9	5685.8	5602.8	5416.6	5221.7	5090.0
37.5°	6048.0	5917.4	5758.1	5539.4	5509.7	5699.7	5862.0	5851.1	5660.2	5489.9	5388.0
40°	6854.7	6690.4	6459.8	5987.7	5747.2	5916.4	6139.1	6195.6	6003.6	5856.1	5783.9
42.5°	8178.0	8011.7	7597.0	6705.2	6122.3	6265.8	6516.2	6665.7	6468.7	6372.7	6308.4
45°	9566.5	9438.8	9014.2	7768.2	6744.8	6759.7	7025.9	7304.1	7180.3	7073.4	6983.3
47.5°	10619.5	10495.8	10191.0	9054.8	7701.9	7373.3	7653.4	8075.0	8017.6	7925.5	7829.5
50°	11370.7	11238.1	11043.1	10267.2	8942.0	8145.2	8394.7	8968.7	9111.2	9056.8	8877.7
52.5°	12074.4	11940.8	11773.5	11323.2	10340.5	9146.8	9276.5	10057.4	10302.8	10330.5	9939.6
55°	12658.3	12553.4	12623.7	12337.7	11793.3	10487.9	10305.8	11187.7	11569.7	11768.6	11153.0
57.5°	13025.5	12910.7	13294.7	13453.0	13263.0	11732.0	11407.4	12429.7	12824.6	13321.4	12285.2
60°	13389.7	13258.1	13788.6	14444.8	14648.6	12936.4	12623.7	13680.7	14088.4	15103.9	13427.4
62.5°	13599.5	13455.1	14186.4	15199.9	15763.0	14167.6	13922.2	14951.5	15387.0	16966.5	14396.2
65°	12877.1	12842.4	14305.2	15695.7	16681.5	15521.6	15309.8	16219.3	16685.4	18670.8	15176.1
67.5°	11985.3	11978.4	13933.1	16006.5	17433.7	16836.8	16630.0	17518.8	17895.9	19683.3	15312.7
70°	11332.1	11334.1	13264.0	16417.2	18296.7	18146.3	17927.5	18735.2	18655.9	18941.9	14080.5
72.5°	9388.3	9482.4	11539.0	15809.6	19341.8	20051.5	19100.3	19291.3	17490.1	14672.4	10372.1
75°	4998.0	5038.6	8014.6	12666.3	18475.8	21153.0	19289.4	17386.1	13159.1	8173.0	5449.3
77.5°	1682.5	1646.9	2791.9	6834.9	14094.4	18494.6	15810.6	12228.8	7040.7	2694.9	1760.7
80°	531.5	549.3	903.6	2173.4	7438.7	12690.0	9517.0	6057.0	2106.1	602.8	347.4
82.5°	239.5	259.3	415.7	954.1	2922.6	5040.6	4605.1	2091.2	722.5	193.0	129.7
85°	90.0	96.0	203.9	543.3	1186.6	1383.6	1598.3	766.0	464.2	76.2	51.4
87.5°	21.8	24.7	84.1	176.2	277.1	188.1	263.2	283.1	260.3	26.7	20.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3343.3	3343.3	3343.3	3343.3	3343.3	3343.3	3343.3	3343.3	3343.3	3343.3
2.5°	3317.5	3263.1	3225.4	3171.0	3121.5	3103.7	3077.0	3069.0	3070.1	3046.3
5°	3277.9	3178.0	3095.8	3003.7	2921.6	2858.3	2791.0	2753.3	2736.5	2727.7
7.5°	3286.8	3140.3	2996.9	2824.6	2640.5	2488.1	2350.6	2271.4	2228.8	2220.9
10°	3360.0	3157.1	2917.6	2591.0	2255.5	2001.2	1805.2	1697.3	1633.0	1624.1
12.5°	3462.0	3186.9	2790.0	2285.3	1816.1	1473.7	1258.9	1188.7	1168.9	1166.8
15°	3574.8	3201.7	2602.9	1921.0	1368.8	1076.8	978.8	987.8	999.6	1000.6
17.5°	3697.6	3188.8	2354.5	1527.1	1043.1	910.6	882.8	908.5	942.2	943.2
20°	3829.2	3135.4	2060.5	1174.8	893.7	845.2	843.2	863.0	898.6	902.6
22.5°	3961.8	3035.5	1699.3	950.1	820.4	809.5	803.7	816.5	852.1	856.1
25°	4097.4	2882.0	1344.0	820.4	776.0	770.9	762.1	770.0	799.7	804.6
27.5°	4238.9	2703.9	1059.9	738.3	725.4	723.5	720.5	717.5	744.2	750.2
30°	4371.5	2449.5	842.3	680.0	665.1	667.0	664.1	664.1	685.8	690.8
32.5°	4511.1	2181.3	706.7	627.5	604.7	601.7	604.7	607.7	621.5	626.5
35°	4662.5	1870.5	629.5	579.0	548.3	534.5	535.4	540.3	550.3	555.2
37.5°	4836.7	1573.6	578.0	534.5	496.8	474.1	462.2	462.2	473.1	473.1
40°	5048.5	1259.9	540.3	492.9	449.4	415.7	392.9	376.1	371.1	379.1
42.5°	5304.8	1002.6	508.7	460.2	404.8	363.2	321.7	287.0	278.1	281.1
45°	5626.5	784.8	479.0	426.6	359.2	305.8	250.4	204.8	193.0	196.0
47.5°	6012.4	643.3	448.3	389.9	311.8	248.4	176.2	138.6	137.6	140.5
50°	6464.8	549.3	411.7	354.3	266.2	187.1	118.8	97.0	105.9	110.9
52.5°	6965.6	495.9	376.1	319.7	218.7	130.6	84.1	77.2	89.1	93.0
55°	7470.3	459.2	341.5	280.1	170.2	93.0	66.3	65.3	78.2	81.1
57.5°	7900.8	416.6	307.8	235.5	128.6	74.2	58.4	58.4	71.3	74.2
60°	8239.3	360.3	268.2	180.1	99.0	65.3	51.4	51.4	65.3	68.3
62.5°	8496.6	278.1	208.8	133.6	84.1	61.4	46.5	45.5	59.4	63.3
65°	8559.0	193.0	152.5	101.9	76.2	58.4	41.6	39.6	53.5	56.4
67.5°	8274.9	136.6	113.8	82.1	71.3	56.4	37.6	33.7	46.5	49.5
70°	7188.3	105.9	88.1	67.3	68.3	55.4	34.6	28.7	37.6	39.6
72.5°	4849.6	87.1	71.3	57.4	64.4	52.5	30.7	22.8	29.7	30.7
75°	1722.1	70.2	56.4	46.5	55.4	46.5	25.8	17.9	21.8	22.8
77.5°	309.8	51.4	40.6	33.7	42.6	36.6	20.7	12.8	15.8	15.8
80°	78.2	29.7	23.7	18.8	28.7	25.8	15.8	9.9	10.9	10.9
82.5°	32.7	15.8	15.8	12.8	15.8	15.8	9.9	6.0	6.9	6.9
85°	18.8	12.8	12.8	10.9	10.9	9.9	6.9	4.0	2.0	3.0
87.5°	12.8	11.9	10.9	9.9	8.9	6.0	4.0	2.0	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

(END OF REPORT)