

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: P622425

Luminaire Tested: **PRV-M-C200-D-U-T4-BZ-7030-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622425
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-C200-D-U-T4-BZ-7030-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K 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: 45391 lumens
Efficiency: N/A
Efficacy: 131.2 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

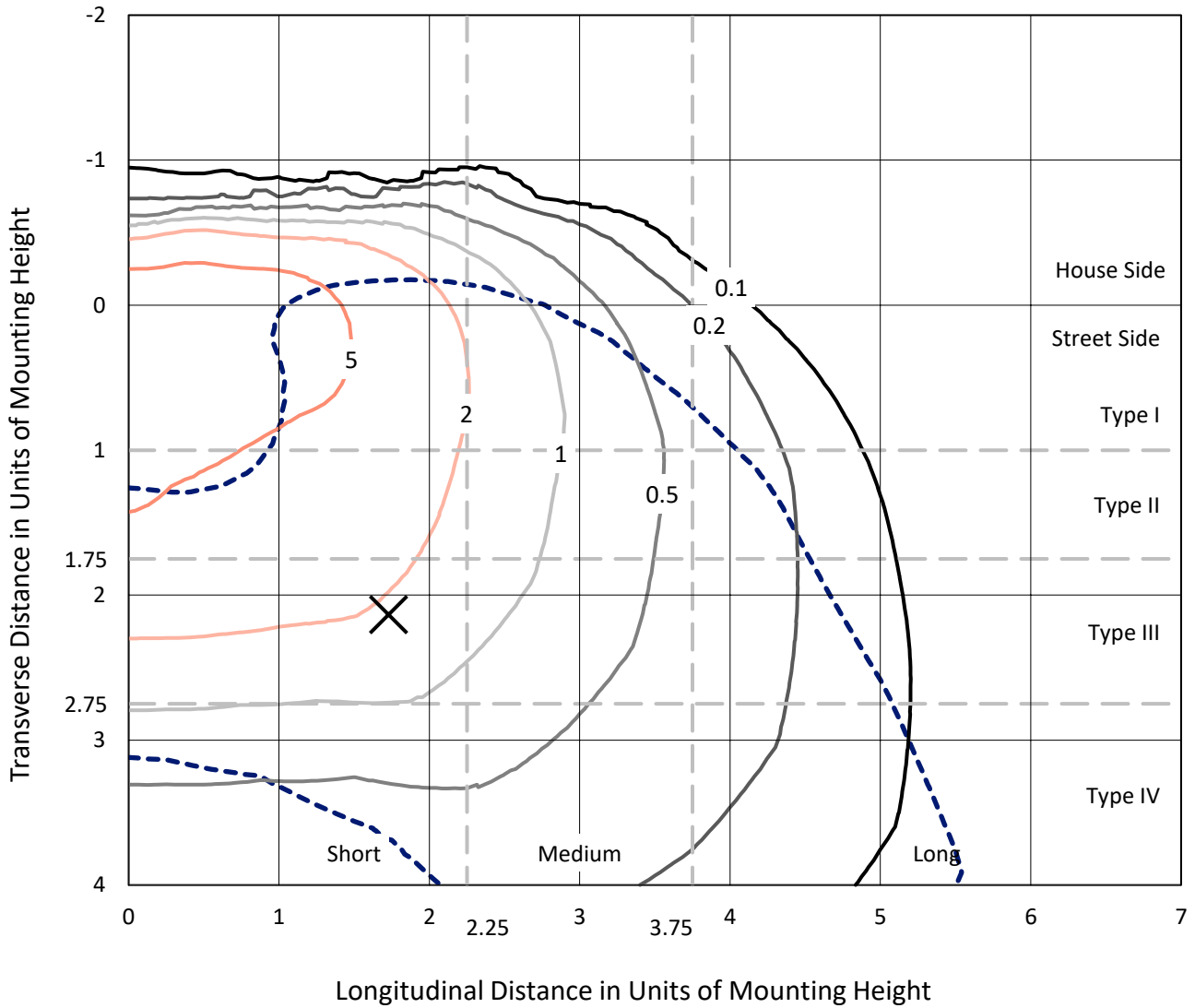
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

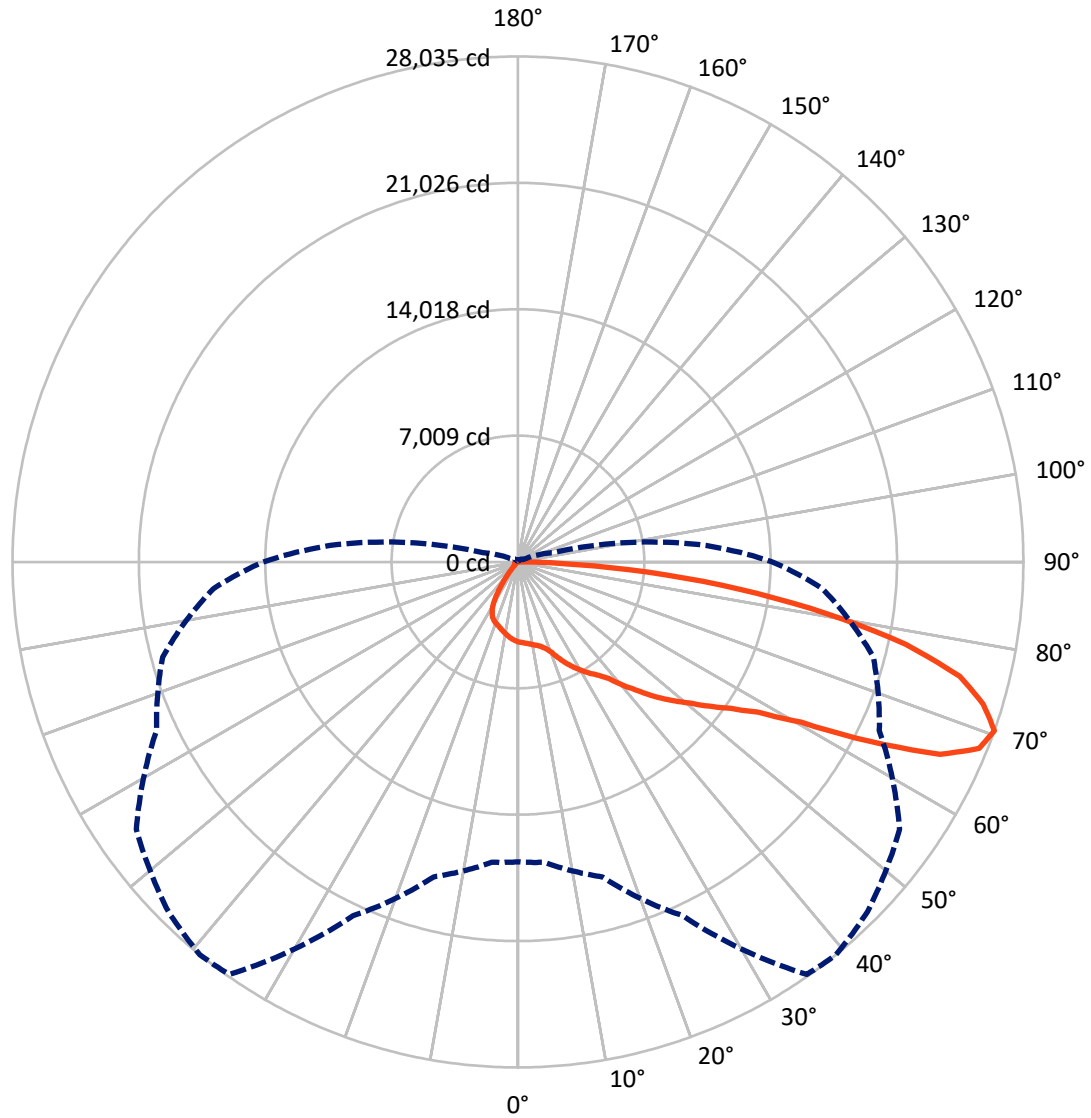
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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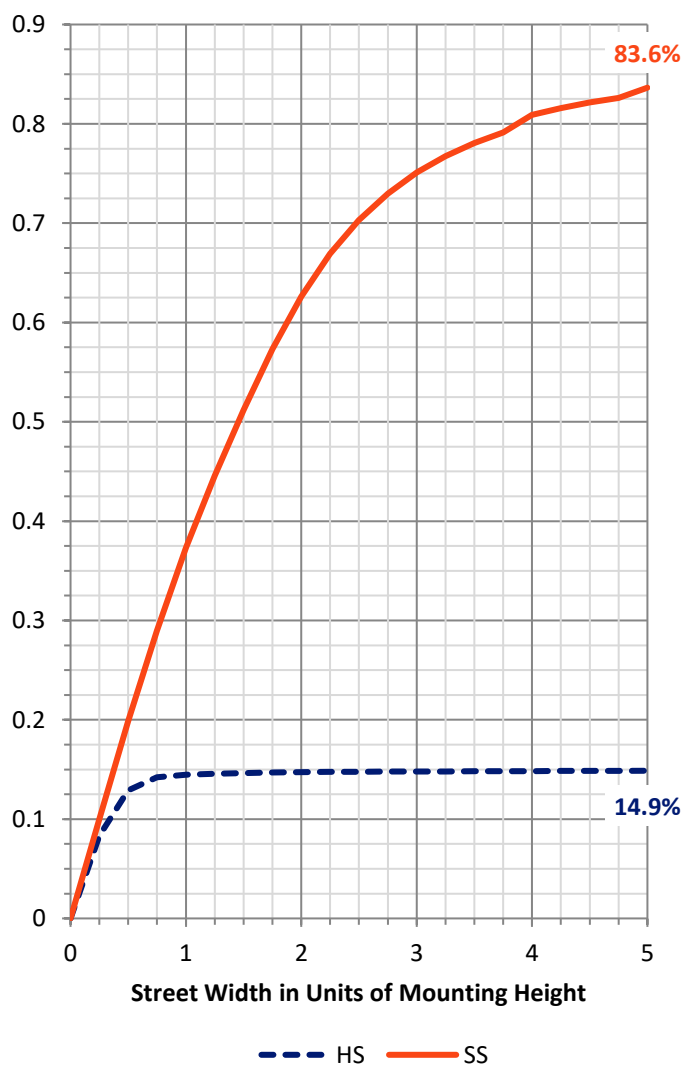
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6825.3	0.0	6825.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	38565.7	0.0	38565.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	45391.0	0.0	45391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.4	0.9
10°-20°	1272.0	2.8
20°-30°	2345.9	5.2
30°-40°	3710.4	8.2
40°-50°	5816.5	12.8
50°-60°	8587.4	18.9
60°-70°	11775.3	25.9
70°-80°	9421.7	20.8
80°-90°	2040.4	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°	45391.0	100.0
0°-180°	45391.0	100.0

Coefficient of Utilization



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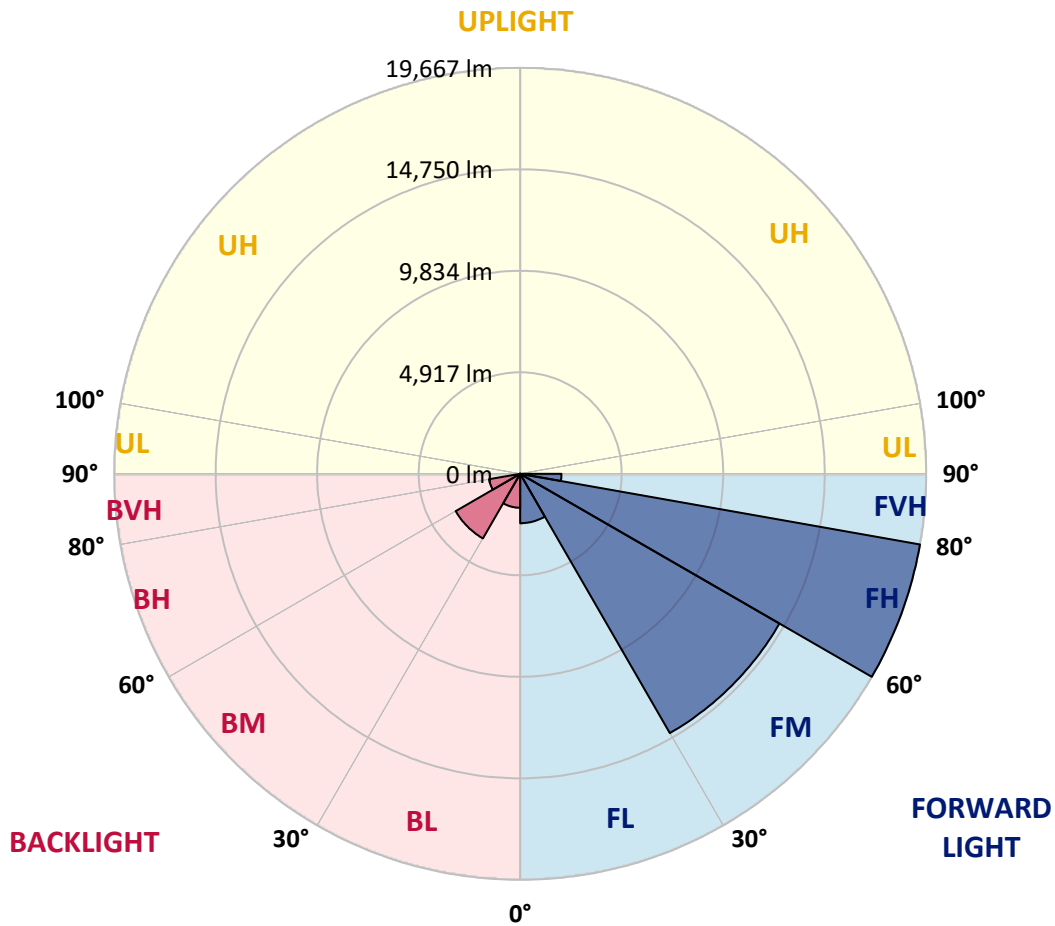
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2394.0	5.3			
FM (30°-60°)	14504.4	32.0			
FH (60°-80°)	19667.1	43.3			G5
FVH (80°-90°)	2000.2	4.4			G5
BL (0°-30°)	1645.4	3.6	B3/2500		
BM (30°-60°)	3609.9	8.0	B3/5000		
BH (60°-80°)	1529.9	3.4	B3/2500		G3/2500
BVH (80°-90°)	40.1	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°	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2
2.5°	4507.9	4501.0	4522.6	4497.1	4490.2	4467.6	4469.6	4480.4	4489.2	4470.6	4468.6
5°	4561.9	4559.9	4574.7	4550.1	4545.2	4526.6	4519.7	4530.5	4533.4	4505.0	4492.2
7.5°	4613.9	4612.0	4632.6	4604.1	4610.0	4587.4	4578.6	4587.4	4591.4	4557.0	4543.3
10°	4648.3	4646.4	4668.9	4655.2	4679.7	4666.0	4663.0	4677.8	4689.6	4639.5	4617.9
12.5°	4696.4	4695.4	4723.9	4718.0	4755.3	4747.5	4761.2	4790.7	4809.3	4763.2	4725.9
15°	4774.0	4782.8	4809.3	4814.3	4866.3	4871.2	4892.8	4940.9	4970.4	4923.2	4888.9
17.5°	4993.0	4977.3	5014.6	5017.5	5040.1	5054.8	5071.5	5148.1	5191.3	5163.8	5139.3
20°	5415.2	5412.2	5411.3	5389.6	5377.9	5356.3	5362.2	5403.4	5469.2	5473.1	5479.0
22.5°	5945.4	5968.0	5958.2	5892.4	5814.8	5793.2	5765.7	5759.8	5802.0	5826.6	5861.0
25°	6463.8	6448.1	6469.7	6333.3	6248.8	6219.4	6205.6	6223.3	6242.9	6271.4	6326.4
27.5°	6847.8	6829.1	6811.4	6719.1	6646.5	6615.1	6625.9	6691.6	6765.3	6781.0	6869.4
30°	7178.7	7144.3	7122.7	7075.6	7025.5	6988.2	6999.0	7152.2	7343.6	7411.4	7572.4
32.5°	7758.0	7738.4	7626.4	7385.9	7367.2	7361.3	7372.1	7623.5	7921.0	8114.4	8373.6
35°	8425.7	8405.1	8298.0	8058.5	7752.1	7717.7	7764.9	8048.6	8536.6	9033.5	9445.9
37.5°	9153.3	9163.1	9068.8	8767.4	8390.3	8212.6	8159.6	8535.7	9163.1	10203.9	10611.4
40°	10138.1	10087.1	9878.9	9463.6	9158.2	8992.2	8729.1	9038.4	9935.8	11455.8	11953.7
42.5°	10903.0	10905.0	10676.2	10264.8	9855.3	9760.1	9585.3	9700.2	10865.7	12885.5	13175.1
45°	11513.8	11567.8	11429.3	11039.5	10762.6	10639.9	10501.4	10746.9	11979.2	14291.6	14320.0
47.5°	12079.3	12116.6	11981.1	11728.8	11534.4	11463.7	11524.6	12005.7	13158.4	15538.6	15287.2
50°	12992.5	12943.4	12462.3	12281.6	12227.6	12285.5	12532.0	13227.2	14765.8	16632.4	16223.0
52.5°	14566.5	14263.1	13401.0	13106.4	13138.8	13291.0	13565.9	14361.3	16331.9	17653.6	16945.6
55°	16730.6	16296.6	15215.5	14341.6	14159.0	14330.8	14643.1	15453.1	17743.9	18523.5	17531.8
57.5°	18202.5	18117.0	17644.7	16596.1	15514.0	15716.3	15936.2	16650.1	18845.6	19364.1	18031.6
60°	19600.7	19664.5	20025.9	19482.9	18380.2	18046.3	17482.7	17894.1	19889.4	20064.1	18363.5
62.5°	20704.3	20809.4	21809.0	21849.2	22485.5	21909.1	20365.6	19298.3	20825.1	20525.6	18476.4
65°	20642.5	20694.5	22171.3	23209.2	25512.7	25723.8	24689.9	21230.6	21778.5	20756.4	18362.5
67.5°	18895.7	19081.3	20427.4	23058.9	27299.8	27594.3	27063.1	24443.4	22323.5	20725.9	17910.8
70°	16637.3	16718.8	18077.8	21649.9	27925.2	28035.2	27424.5	25841.6	22114.4	20404.9	16949.6
72.5°	13658.2	13844.8	15161.5	18831.9	27049.4	26982.6	26635.0	25545.1	21712.8	19523.1	14844.4
75°	10613.4	10738.1	11947.8	15384.4	24752.7	25309.5	25052.2	24546.5	20506.0	17262.8	11052.3
77.5°	7190.5	7528.2	8695.7	11880.0	20569.8	21991.6	22787.0	22382.4	17654.6	13076.9	6395.1
80°	4079.8	3976.7	5479.0	8289.2	15780.1	17407.1	18528.5	17962.9	12581.1	6997.0	1685.9
82.5°	1300.0	1445.4	2577.5	5028.3	11140.6	12392.6	13217.4	11751.4	6358.8	1823.4	346.6
85°	591.1	636.3	1065.4	2456.7	6524.7	7181.6	7233.7	5184.4	1023.1	362.3	216.0
87.5°	247.4	247.4	504.7	1101.7	2814.1	2283.9	1443.4	1480.7	207.2	164.0	112.9
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°	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2	4435.2
2.5°	4449.0	4447.0	4436.2	4401.9	4373.4	4365.5	4365.5	4345.9	4349.8	4352.8	4334.1
5°	4468.6	4462.7	4428.4	4371.4	4315.5	4280.1	4267.3	4234.0	4224.1	4209.4	4196.6
7.5°	4505.9	4489.2	4431.3	4348.8	4262.4	4199.6	4152.5	4090.6	4058.2	4047.4	4019.9
10°	4581.5	4552.1	4468.6	4347.9	4218.2	4102.4	4010.1	3919.7	3864.8	3822.5	3803.9
12.5°	4685.6	4649.3	4543.3	4380.3	4189.8	4017.0	3866.7	3739.1	3654.6	3605.5	3592.8
15°	4842.7	4801.5	4664.0	4449.0	4184.9	3939.4	3725.3	3528.9	3409.2	3318.8	3301.1
17.5°	5092.1	5059.7	4873.2	4575.7	4234.0	3896.2	3578.0	3285.4	3072.4	2973.2	2932.9
20°	5435.8	5393.6	5174.6	4771.1	4336.1	3877.5	3435.7	3027.2	2715.9	2508.8	2455.7
22.5°	5842.3	5779.5	5493.7	4983.1	4430.3	3849.0	3300.2	2769.9	2328.1	1995.2	1957.9
25°	6317.5	6245.9	5785.4	5152.0	4468.6	3776.4	3119.5	2475.4	1850.9	1497.4	1477.8
27.5°	6844.8	6684.8	6075.0	5282.6	4439.2	3630.1	2854.4	2029.6	1335.4	1062.4	1016.3
30°	7463.4	7191.4	6349.0	5362.2	4351.8	3400.3	2475.4	1437.5	885.7	685.4	679.5
32.5°	8129.2	7752.1	6622.9	5377.9	4187.8	3083.2	1867.6	909.2	504.7	394.7	399.6
35°	9076.7	8496.4	6921.4	5338.6	3924.7	2615.8	1231.3	518.4	279.8	248.4	235.7
37.5°	10132.2	9413.5	7247.4	5193.3	3532.9	1970.7	735.4	252.3	206.2	197.4	194.4
40°	11369.4	10426.8	7626.4	4975.3	3028.2	1353.1	345.6	198.3	188.5	183.6	183.6
42.5°	12517.3	11466.6	8112.5	4684.6	2443.0	788.5	229.8	190.5	169.9	167.9	168.9
45°	13555.1	12370.0	8554.3	4344.9	1837.1	397.7	221.9	169.9	151.2	151.2	151.2
47.5°	14477.1	13118.2	8873.4	3916.8	1258.8	263.1	221.9	155.1	137.5	136.5	137.5
50°	15248.9	13747.6	9078.6	3448.4	741.3	246.5	203.3	147.3	124.7	127.6	127.6
52.5°	15844.9	14198.3	9105.2	2869.1	406.5	240.6	193.4	136.5	113.9	130.6	134.5
55°	16323.1	14493.8	8952.0	2203.4	297.5	225.8	189.5	126.7	112.9	148.3	155.1
57.5°	16624.6	14626.4	8584.8	1495.4	275.9	207.2	176.7	115.9	107.0	131.6	136.5
60°	16777.7	14580.2	8031.9	936.7	270.0	202.3	163.0	111.0	95.2	95.2	96.2
62.5°	16744.3	14324.9	7273.9	561.6	252.3	194.4	153.2	107.0	79.5	64.8	64.8
65°	16365.3	13756.4	6049.5	402.6	239.6	193.4	146.3	101.1	67.8	50.1	47.1
67.5°	15592.6	12652.8	4226.1	351.5	245.5	193.4	146.3	97.2	63.8	40.3	36.3
70°	14130.5	10472.9	1974.6	322.1	254.3	201.3	149.2	96.2	57.0	31.4	28.5
72.5°	11417.5	7253.3	481.1	261.2	256.3	201.3	161.0	95.2	51.1	24.5	21.6
75°	7341.7	3421.9	342.7	200.3	225.8	193.4	163.0	113.9	54.0	15.7	13.7
77.5°	2934.9	657.9	303.4	140.4	212.1	215.0	176.7	120.8	66.8	7.9	3.9
80°	505.7	306.4	283.8	94.3	174.8	219.9	139.4	100.2	63.8	2.9	0.0
82.5°	285.7	260.2	240.6	57.9	133.5	148.3	85.4	71.7	62.8	2.9	0.0
85°	215.0	216.0	105.1	44.2	63.8	92.3	33.4	20.6	57.0	2.0	0.0
87.5°	124.7	67.8	34.4	26.5	26.5	36.3	12.8	8.8	7.9	2.0	1.0
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)