

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: P622512

Luminaire Tested: **PRV-M-C250-D-U-T4-BZ**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-5)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-C250-D-U-T4-BZ
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68754 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

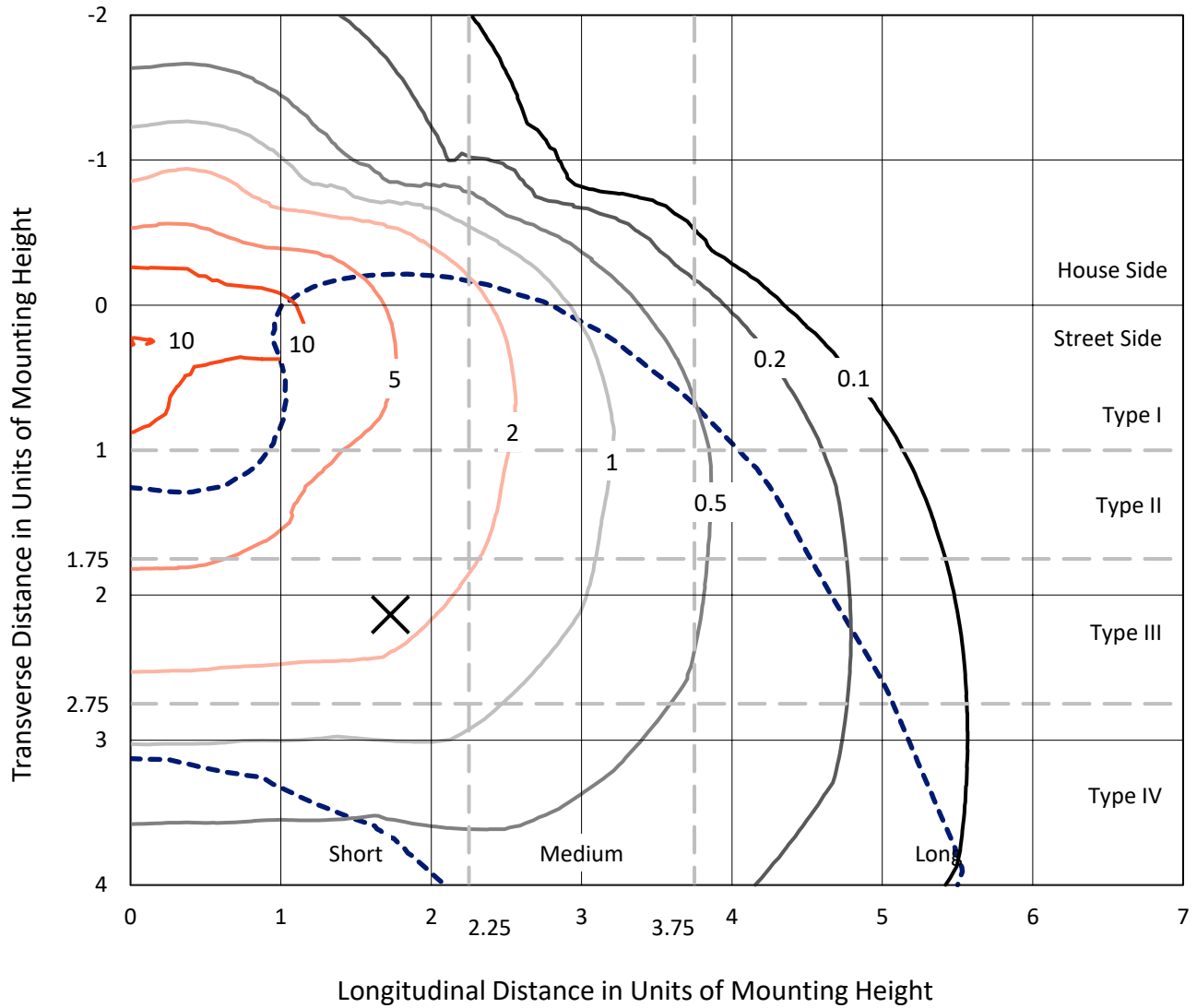
Input Watts (W): 486.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

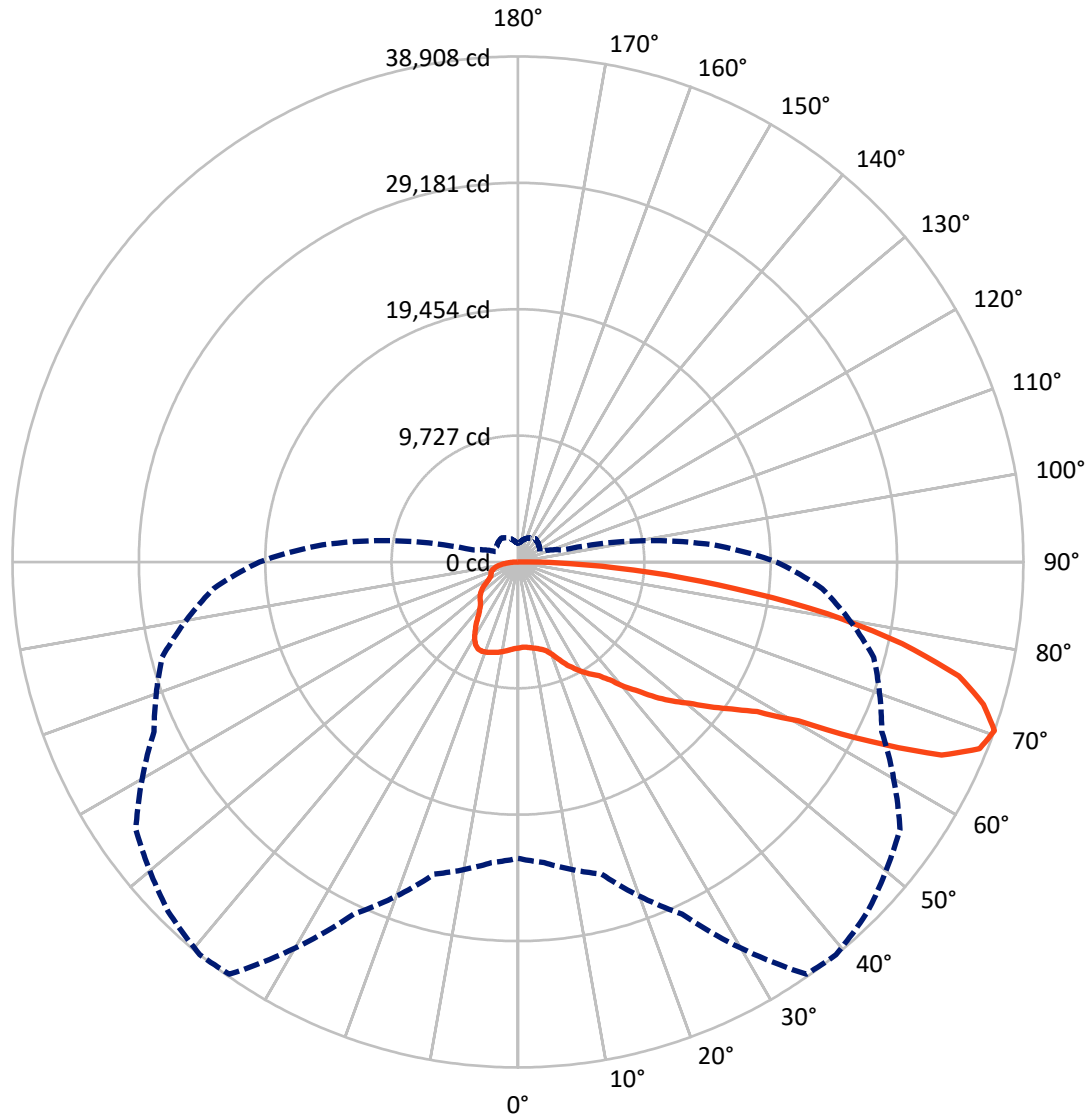
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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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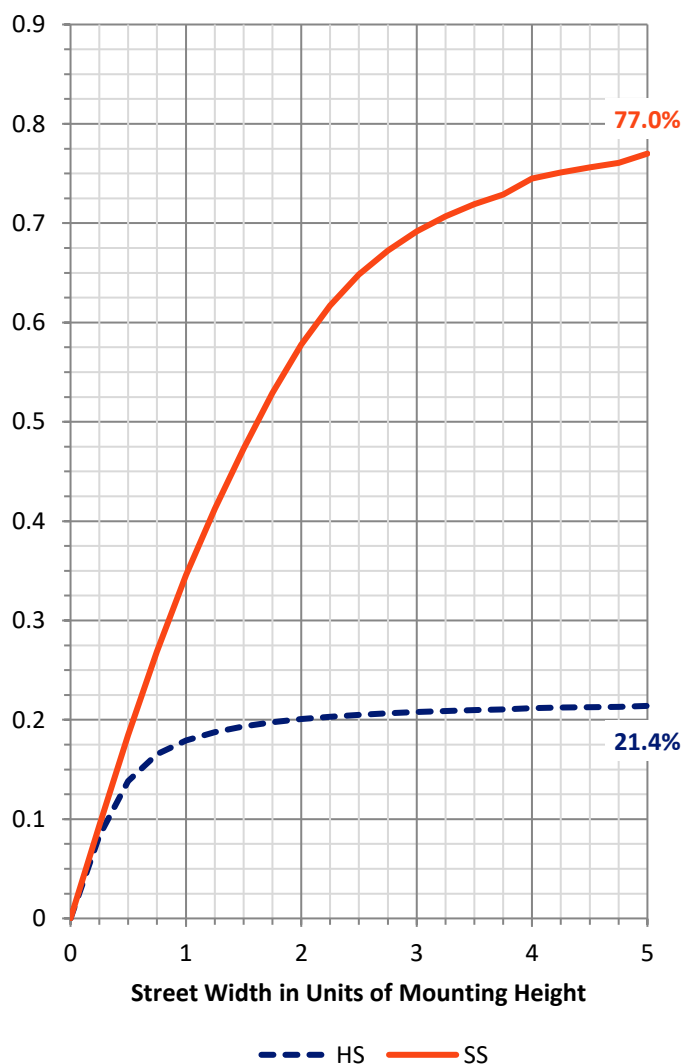
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14931.0	0.0	14931.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	53823.0	0.0	53823.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	68754.0	0.0	68754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.9	0.9
10°-20°	2036.2	3.0
20°-30°	3802.5	5.5
30°-40°	5943.4	8.6
40°-50°	9103.8	13.2
50°-60°	13071.0	19.0
60°-70°	17254.6	25.1
70°-80°	13742.1	20.0
80°-90°	3156.5	4.6
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°	68754.0	100.0
0°-180°	68754.0	100.0

Coefficient of Utilization



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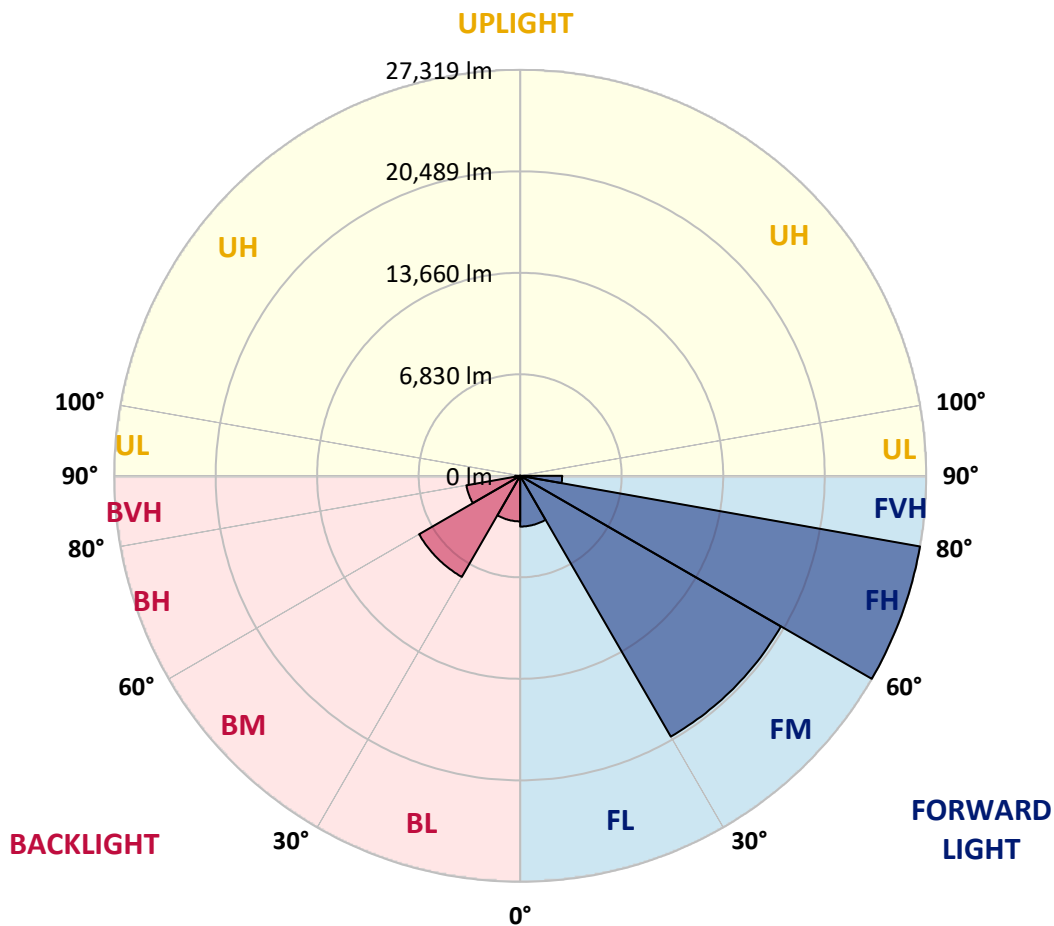
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3415.4	5.0			
FM (30°-60°)	20262.0	29.5			
FH (60°-80°)	27319.3	39.7			G5
FVH (80°-90°)	2826.3	4.1			G5
BL (0°-30°)	3067.2	4.5	B4/5000		
BM (30°-60°)	7856.2	11.4	B4/8500		
BH (60°-80°)	3677.4	5.3	B4/5000		G4/5000
BVH (80°-90°)	330.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6628.7	6628.7	6628.7	6628.7	6628.7	6628.7	6628.7	6628.7	6628.7	6628.7	6628.7
2.5°	6600.2	6597.4	6628.7	6598.8	6594.7	6573.0	6579.8	6604.2	6638.2	6631.4	6653.2
5°	6620.5	6617.8	6649.1	6606.9	6608.3	6596.1	6582.5	6612.4	6645.0	6646.4	6674.9
7.5°	6660.0	6670.8	6698.0	6661.3	6676.3	6655.9	6638.2	6674.9	6696.7	6687.2	6732.0
10°	6692.6	6699.4	6734.7	6717.1	6747.0	6740.2	6738.8	6782.3	6812.2	6783.7	6828.5
12.5°	6733.4	6748.3	6790.5	6787.8	6846.2	6843.5	6858.4	6929.1	6964.5	6938.7	6975.4
15°	6831.3	6846.2	6889.7	6900.6	6978.1	6993.0	7025.7	7116.7	7177.9	7152.1	7201.0
17.5°	7100.4	7092.3	7133.1	7130.3	7199.7	7213.3	7263.6	7383.2	7466.1	7477.0	7534.1
20°	7623.8	7640.1	7663.2	7633.3	7629.3	7617.0	7634.7	7716.3	7830.5	7893.0	7989.5
22.5°	8379.7	8336.2	8351.1	8246.5	8185.3	8178.5	8147.2	8185.3	8299.5	8385.1	8525.1
25°	9033.6	9039.0	9024.1	8892.2	8799.7	8783.4	8759.0	8788.9	8866.4	8977.8	9151.8
27.5°	9576.0	9558.3	9559.7	9410.1	9315.0	9285.1	9274.2	9441.4	9595.0	9671.2	9929.5
30°	10060.0	10016.5	9997.4	9869.6	9826.1	9805.7	9800.3	10073.6	10360.4	10569.8	10905.5
32.5°	10915.1	10872.9	10678.5	10365.8	10292.4	10287.0	10300.6	10664.9	11163.8	11548.6	12088.3
35°	11802.8	11781.0	11676.4	11287.6	10849.8	10764.2	10825.3	11302.5	11978.2	12768.0	13445.0
37.5°	12876.8	12837.3	12704.1	12224.2	11734.8	11509.1	11412.6	11918.3	12842.8	14306.9	15137.5
40°	14199.5	14071.7	13854.2	13218.0	12807.4	12599.4	12226.9	12657.9	13909.9	16135.4	16910.3
42.5°	15257.2	15221.8	14933.6	14357.2	13839.2	13587.7	13311.8	13523.9	15204.1	18007.3	18669.4
45°	16098.7	16132.6	15969.5	15463.8	14985.3	14837.1	14669.9	14993.4	16730.8	20023.4	20221.9
47.5°	16914.3	16940.2	16740.3	16382.8	16093.2	15994.0	16056.5	16760.7	18503.5	21725.4	21524.2
50°	18139.2	18038.6	17373.8	17190.3	17029.9	17077.5	17471.7	18335.0	20545.4	23371.7	22736.9
52.5°	20193.3	19812.7	18615.0	18235.7	18325.4	18498.1	18884.2	19944.6	22777.7	24664.6	23734.7
55°	23087.6	22490.8	21089.2	19815.4	19714.8	19973.1	20421.7	21614.0	24708.1	25854.1	24553.1
57.5°	25151.3	25128.2	24343.8	23177.3	21681.9	21717.3	22123.8	23207.2	26276.9	27040.9	25193.4
60°	27126.6	27259.8	27641.8	26936.2	25444.9	24822.3	24360.1	24815.5	27673.1	27985.7	25647.5
62.5°	28715.8	28816.4	30272.3	30491.2	31098.9	30424.6	28352.8	26888.6	28945.5	28575.7	25788.9
65°	28664.1	28646.4	30673.4	32225.9	35330.9	35842.0	34515.2	29668.7	30503.4	28878.9	25613.5
67.5°	26357.1	26295.9	28272.6	32030.1	38004.9	38333.9	37563.1	34029.9	31017.3	28835.4	24996.3
70°	22813.0	23230.4	24868.5	29895.8	38733.6	38907.6	38067.4	35901.8	30900.4	28355.5	23513.1
72.5°	19060.9	19188.7	21101.5	26222.5	37425.8	37478.8	36899.7	35481.8	30122.8	27229.9	20574.0
75°	14997.5	14945.8	16737.6	21173.5	34134.5	35061.7	34814.3	34095.1	28416.7	24028.4	15730.2
77.5°	10531.7	10462.4	12288.1	16344.7	28174.7	30251.9	31630.4	31009.2	24251.3	18035.9	8680.1
80°	5296.4	5727.4	7592.6	11670.9	21960.6	24184.7	25650.2	24592.5	17532.9	10021.9	2606.1
82.5°	1914.1	1995.7	3647.4	7205.1	15397.2	16821.9	18165.0	16442.6	8666.5	2510.9	538.3
85°	919.0	957.1	1494.0	3716.7	9407.4	10147.0	10677.2	7035.2	1616.4	481.2	304.5
87.5°	433.7	455.4	679.7	1481.8	3896.2	4045.7	3798.3	2046.0	282.8	182.2	126.4
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°	6628.7	6628.7	6628.7	6628.7	6628.7	6628.7	6628.7	6628.7	6628.7	6628.7	6628.7
2.5°	6645.0	6655.9	6673.6	6650.5	6638.2	6649.1	6674.9	6672.2	6688.5	6695.3	6681.7
5°	6672.2	6687.2	6714.3	6708.9	6707.5	6736.1	6770.1	6785.0	6805.4	6808.1	6789.1
7.5°	6729.3	6749.7	6782.3	6795.9	6816.3	6843.5	6891.1	6895.2	6922.3	6916.9	6904.7
10°	6836.7	6863.9	6915.5	6940.0	6945.5	6967.2	7002.5	6995.8	7003.9	6999.8	6980.8
12.5°	6984.9	7017.5	7090.9	7137.1	7122.2	7107.2	7089.6	7055.6	7039.3	7027.0	7009.3
15°	7214.6	7269.0	7356.0	7358.7	7300.3	7222.8	7165.7	7063.7	6999.8	6961.8	6931.9
17.5°	7583.0	7629.3	7753.0	7670.0	7531.4	7375.0	7203.7	6990.3	6819.0	6710.3	6665.4
20°	8028.9	8120.0	8236.9	8061.6	7827.7	7545.0	7236.4	6872.0	6510.4	6273.9	6224.9
22.5°	8608.1	8715.5	8712.7	8430.0	8098.3	7674.1	7243.2	6703.5	6131.1	5679.8	5611.8
25°	9290.5	9336.7	9179.0	8735.9	8251.9	7705.4	7142.6	6422.1	5588.7	5058.5	5020.5
27.5°	9967.5	9968.9	9593.7	8962.9	8262.8	7593.9	6891.1	5932.7	5024.5	4616.7	4571.8
30°	10875.6	10662.2	9977.0	9064.8	8143.1	7316.6	6397.6	5311.4	4550.1	4189.8	4146.3
32.5°	11869.4	11473.8	10307.4	9034.9	7884.8	6866.6	5751.9	4777.1	4169.4	3810.6	3775.2
35°	13091.5	12436.3	10647.2	8899.0	7409.0	6280.7	5140.1	4378.8	3864.9	3469.3	3402.7
37.5°	14600.5	13733.2	11083.6	8666.5	6885.6	5546.6	4628.9	4032.1	3574.0	3126.7	3031.6
40°	16267.2	15092.7	11647.8	8423.2	6292.9	5024.5	4261.9	3828.2	3389.1	2899.7	2808.6
42.5°	17829.2	16541.8	12372.4	8162.2	5751.9	4603.1	4105.6	3802.4	3337.5	2835.8	2728.4
45°	19313.8	17800.7	13111.9	7825.0	5186.3	4279.6	4040.3	3764.3	3292.6	2792.3	2679.5
47.5°	20492.4	18908.7	13784.9	7471.6	4687.4	4047.1	3942.4	3629.7	3186.6	2714.8	2612.9
50°	21575.9	19770.5	14305.5	7153.4	4234.7	3864.9	3758.9	3410.9	2985.4	2606.1	2517.7
52.5°	22417.4	20453.0	14597.8	7116.7	3795.6	3628.4	3502.0	3159.4	2800.5	2455.2	2369.5
55°	23004.7	20927.4	14635.9	6938.7	3416.3	3321.1	3177.0	2940.5	2702.6	2403.5	2330.1
57.5°	23382.6	21109.6	14383.0	5864.7	3024.8	2903.8	2842.6	2782.8	2610.2	2305.6	2249.9
60°	23578.4	20979.1	13779.4	4316.3	2640.1	2505.5	2607.4	2606.1	2467.4	2164.3	2118.0
62.5°	23505.0	20594.4	12572.2	3096.8	2289.3	2298.8	2411.7	2392.6	2194.2	1910.0	1857.0
65°	22972.1	19732.5	10519.5	2237.7	2126.2	2236.3	2324.7	2228.1	1975.3	1703.4	1669.4
67.5°	21824.7	18071.2	7349.2	1983.4	2084.0	2207.8	2294.8	2146.6	1885.6	1600.1	1568.8
70°	19902.4	15094.0	3555.0	1880.1	2006.6	2149.3	2232.2	2063.7	1805.4	1504.9	1457.3
72.5°	16308.0	10499.1	1473.6	1768.7	1911.4	2013.4	2137.1	1972.6	1678.9	1347.2	1309.2
75°	10227.2	5087.1	1223.5	1639.5	1764.6	1865.2	1988.9	1797.2	1458.7	1042.7	1010.1
77.5°	4453.6	1197.7	1152.8	1477.7	1636.8	1699.3	1804.0	1710.2	1336.3	916.3	891.8
80°	861.9	751.8	1093.0	1227.6	1408.4	1494.0	1548.4	1487.2	1125.6	698.8	583.2
82.5°	492.1	643.0	951.6	914.9	1113.4	1103.9	1207.2	1216.7	898.6	339.9	304.5
85°	334.4	541.1	638.9	565.5	651.2	668.9	874.1	851.0	611.8	203.9	164.5
87.5°	157.7	164.5	212.1	193.0	256.9	372.5	505.7	452.7	267.8	115.6	97.9
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)